

LOPEZ ISLAND LIBRARY REROOF

LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

PROJECT NO. 736

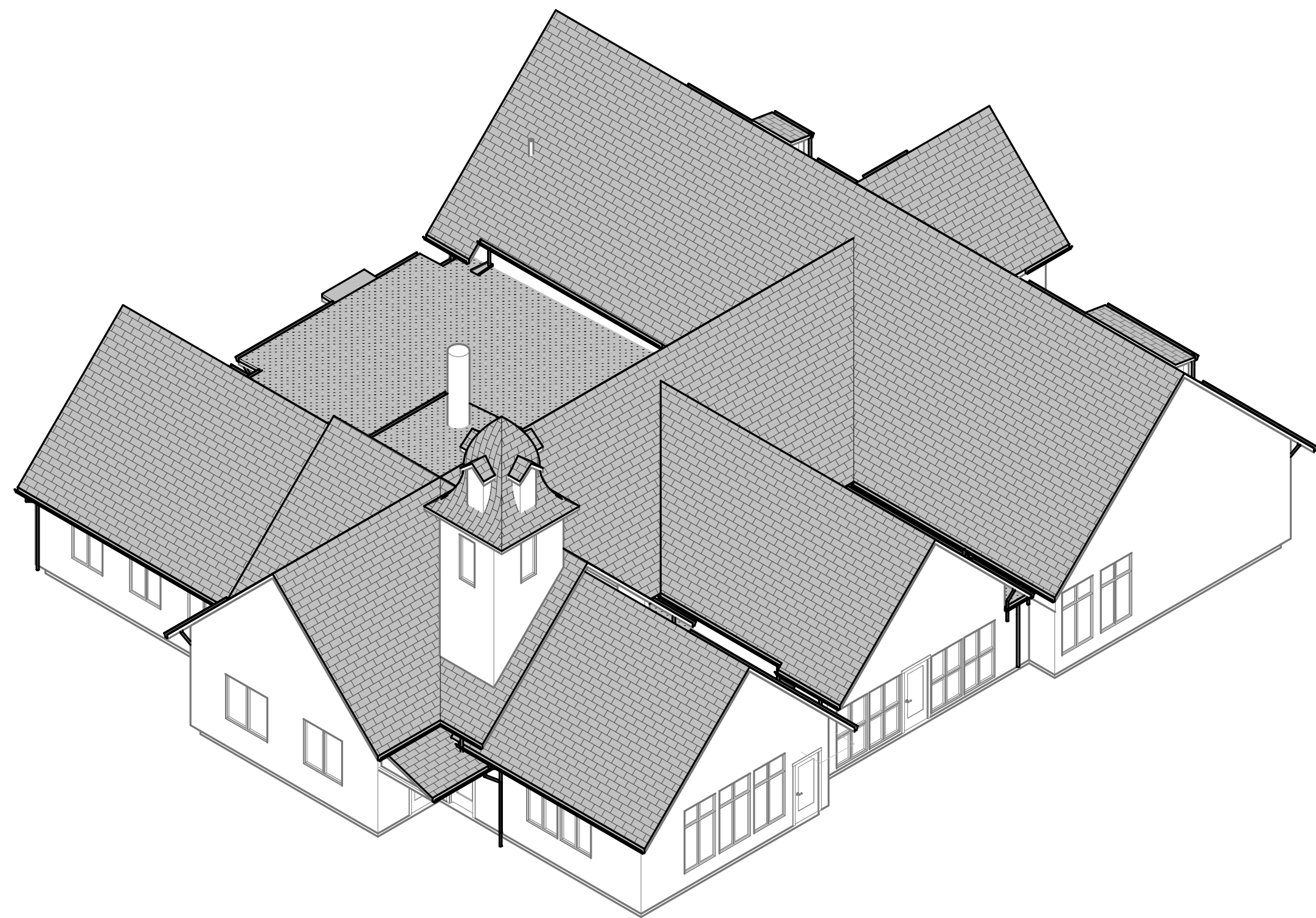
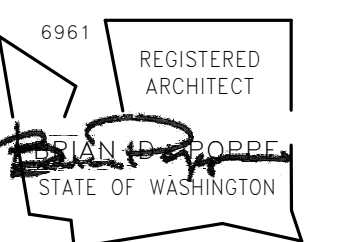


ILLUSTRATION ONLY: NOT TO BE REFERENCED FOR CONSTRUCTION



BID SET

10/29/2026

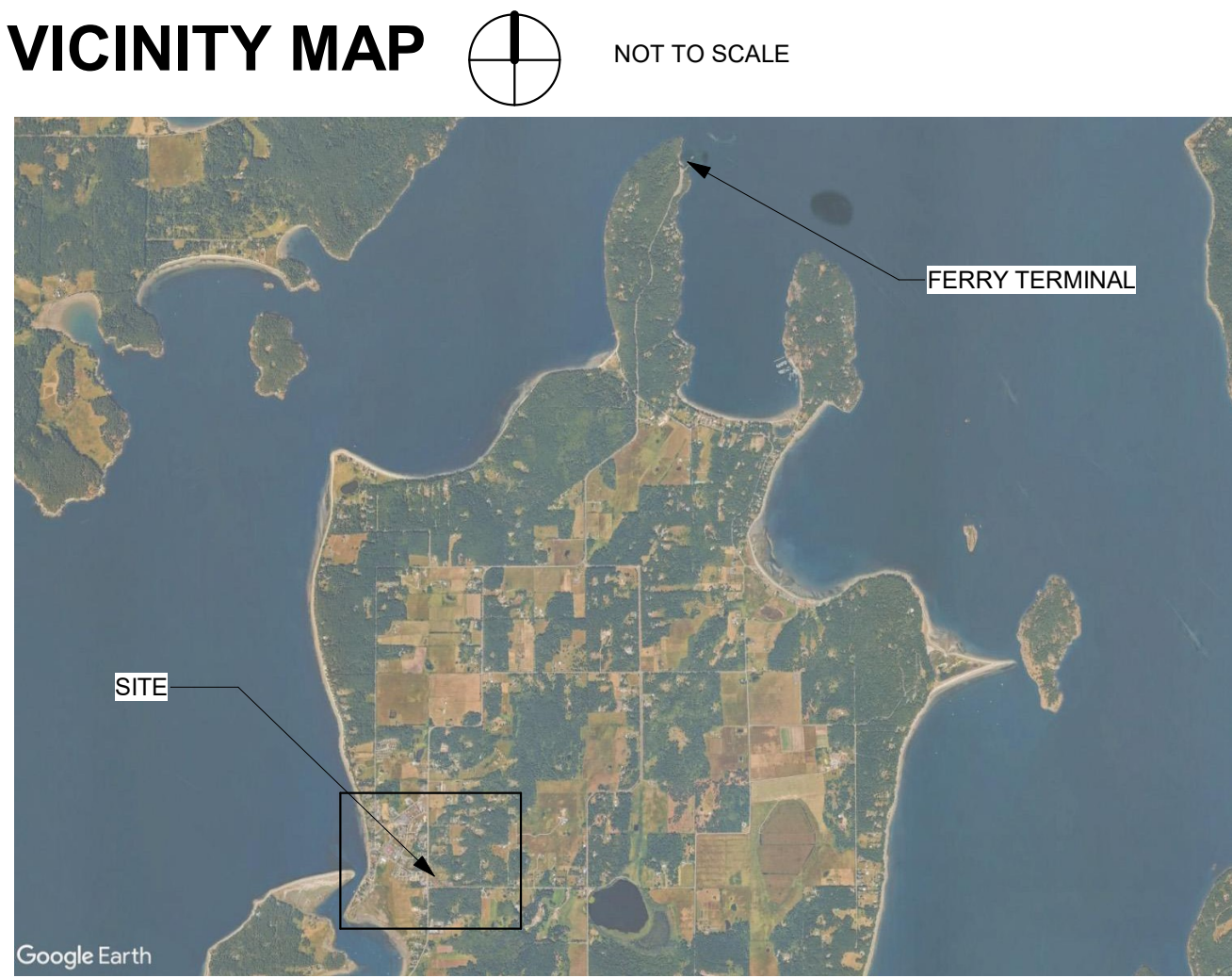
ABBREVIATIONS & ACRONYMS (ABBREVIATIONS & ACRONYMS RELATE WITH OR WITHOUT PERIODS)

ACC	ACCESSORY	FH	FIRE HYDRANT	PS	PROJECTION SCREEN
ACR	ACCESS CARD READER	FHS	FIRE HORN STROBE	PTD	PAPER TOWEL DISPENSER
ACT	ACOUSTICAL CEILING TILE	FIN	FINISH	R/O	ROUGH OPENING
AD	AREA DRAIN	FOB	FACE OF BRICK OR BLOCK	RB	RUBBER BASE
ADA	AMERICAN DISABILITIES ACT	FOC	FACE OF CONCRETE	RCP	REFLECTED CEILING PLAN
ADDN	ADDITION	FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	RD	ROOF DRAIN
ADJ	ADJUSTABLE	FOIO	FURNISHED BY OWNER, INSTALLED BY OWNER	REBAR	REINFORCING BAR
ALT	ALTERNATE	FOS	FACE OF STUD	REINF	REINFORCING
ALUM	ALUMINUM	FP	FILLER PIECE	RELOC	RELOCATE
ANG	ANGLE	FPA	FALL PROTECTION ANCHOR	RM	ROOM
APB	ADA PUSH BUTTON	FRMG	FRAMING	RRV	ROOFING RELIEF VENT
ASSM	ASSEMBLY (CONSTRUCTION)	FS	FLOOR SLEEVE	RUB	RUBBER
AWRB	AIR AND WEATHER RESISTIVE BARRIER	FT	FOOT	RV	ROOF VENT
BB	BULLETIN BOARD	FTG	FOOTING	RWL	RAIN WATER LEADER
BD	BOARD	G.A	GYPSUM ASSOCIATION	S	SOUTH
BLK	BLOCKING	GA	GAUGE	SAM	SELF-ADHERING MEMBRANE
BM	BEAM	GALV	GALVANIZED	SB	SPLASH BLOCK
BOC	BOTTOM OF CONCRETE	GB	GRAB BAR	SFRM	SQUARE FOOT (FEET)
BOS	BOTTOM OF STEEL	GL	GLAZING	SHBR	SHelf BRACKET
BOT	BOTTOM OF TRUSS	GL B	GLASS BOARD	SIM	SIMILAR
BS	BACKSPASH	GLULAM	GLUE-LAMINATED TIMBER	SMB	SHEET METAL BRACKET
BUR	BUILT-UP ROOFING	GWB	GYPSUM WALL BOARD	SND	SANITARY NAPKIN DISPENSER
CB	CATCH BASIN	GYP	GYPSUM	SNR	SANITARY NAPKIN RECEPTACLE
CBB	CEMENTITIOUS BACKER BOARD	HB	HOSE BIBB	SOG	SLAB ON GRADE
CFS	COLD-FORMED STEEL	HC	HANDICAPPED	SPEC	SPECIFICATIONS
CG	CORNER GUARD	HOG	HOT DIPPED GALVANIZED	SS	STAINLESS STEEL
CH	CONDUCTOR HEAD	HDW	HARDWARE	STD	STANDARD
CJ	CONTROL JOINT	HDWD	HARDWOOD	STL	STEEL
CL	CENTERLINE	HM	HOLLOW METAL	STN	STAIN
CLG	CEILING	HRV	HEAT RECOVERY VENTILATOR	STOR	STORAGE
CLO	CLOSET	HT	HEIGHT	SUSP	SUSPENDED
CLT	CROSS-LAMINATED TIMBER	IBC	INTERNATIONAL BUILDING CODE	T&G	TONGUE AND GROOVE
CMU	CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER	TD	TRENCH DRAIN
CO	CLEAN OUT	INS	INSULATION	THSD	THRESHOLD
COL	COLUMN	JT	JOINT	TOC	TOP OF CONCRETE
CONC	CONCRETE	LAV	LAVATORY	TOS	TOP OF STEEL
CONST	CONSTRUCTION	LF	LIGHT FIXTURE	TOT	TOP OF TRUSS
CONT	CONTINUOUS	LVL	LAMINATED VENEER LUMBER	TPD	TOILET PAPER DISPENSER
COORD	COORDINATE	MANF	MANUFACTURED	TPO	THERMOPLASTIC POLYOLEFIN
CPT	CARPET	MAS	MASONRY	TS	TACKABLE SURFACE
CT	CERAMIC TILE	MATL	MATERIAL	TSGL	TEMPERED SHEET GLASS
CTR	CENTER	MAX	MAXIMUM	TW	TACKABLE WALL
DF	DRINKING FOUNTAIN	MDO	MEDIUM DENSITY OVERLAY	TYP	TYPICAL
DGR	DEGREE	MECH	MECHANICAL	UON	UNLESS OTHERWISE NOTED
DIA	DIAMETER	MEMB	MEMBRANE	VB	VAPOR BARRIER
DI	DIMENSION	MH	MAN HOLE	VCT	VINYL COMPOSITION TILE
DN	DOWN	MHO	MAGNETIC HOLD OPEN	VER	VERIFY
DR	DOOR	MIN	MINIMUM	VIF	VERIFY IN FIELD
DS	DOWNSPOUT	ML	MARRIAGE LINE	VP	VENEER PLASTER
DWG	DRAWING	MO	MASONRY OPENING	VTR	VENT THRU ROOF
E	EAST	MR	MOISTURE RESISTANT	W	WEST
EJ	EXPANSION JOINT	MS	MACHINE SCREW	W/	WITH
EL	ELEVATION	MTL	METAL	W/O	WITHOUT
ELEC	ELECTRICAL	MULL	MULLION	WB	WHITE BOARD
EM LIGHT	EMERGENCY LIGHT	N	NORTH	WCH	WIRE CHASE
EP	ELECTRICAL PANEL	NIC	NOT IN CONTRACT	WD	WOOD
EQ	EQUAL	NOM	NOMINAL	WH	WATER HYDRANT
EW	EMERGENCY EYEWASH	NPW	NOMINAL PANEL WIDTH	WOG	WALK-OFF GRATE
EWS	EMERGENCY EYEWASH/SHOWER	NTS	NOT TO SCALE	WOM	WALK-OFF MAT
EX	EXISTING	OC	ON CENTER	WRB	WEATHER RESISTIVE BARRIER
F PULL	FIRE PULL	OD	OUTSIDE DIAMETER	WT	WEIGHT
F STROBE	FIRE STROBE	OPG	OPENING	WWM	WELDED WIRE MESH
FA	FIRE ALARM	OPP	OPPOSITE	YD	YARD
FAA	FIRE ANNUNCIATION ALARM	OVSJ	OPEN WEB STEEL JOIST	≈	ALMOST EQUAL TO
FAP	FIRE ALARM PANEL	P.LAM	PLASTIC LAMINATE	≠	NOT EQUAL TO
FB	FIRE BLANKET	P/D	POWER/DATA PORTS	≤	LESS THAN OR EQUAL TO
FD	FLOOR DRAIN	P/PTD	PAINT/PAINTED	≥	GREATER THAN OR EQUAL TO
FE	FIRE EXTINGUISHER	PLYWD	PLYWOOD		

GRAPHIC SYMBOLS

SECTION MARK	CEILING TAG - REFLECTED CEILING PLAN
SECTION 1 IS NOTED AS DRAWING "1" ON SHEET "A101"	ROOM NAME ROOM NUMBER CEILING FINISH TYPE CEILING HEIGHT
DETAIL TAG	DOOR TAG
DETAIL IS NOTED AS DRAWING "1" ON SHEET "A101"	DOOR IS NUMBER 128A (SEE SCHEDULE) NON-RATED DOOR IS NUMBER 128A (SEE SCHEDULE) WITH A RATING OF 20/45/90 MINUTES
ELEVATION TAG	WINDOW TAG
THIS ELEVATION IS NOTED AS DRAWING "1" ON SHEET "A101"	WINDOW NUMBER (SEE SCHEDULE)
WALL TYPE SYMBOL - INTERIOR	SLOPE INDICATOR
ATYPICAL STUD CAVITY WIDTH TYPICAL OR SIMILAR WALL TYPE	3"12"
WALL TYPE SYMBOL - EXTERIOR	ELEVATION TARGET
ATYPICAL STUD CAVITY WIDTH TYPICAL OR SIMILAR WALL TYPE	14'-0"
ROOM TAG - FLOOR PLAN	SIGNAGE TAG
ROOM NUMBER ROOM NAME FLOOR FINISH TYPE WALL FINISH TYPE	SIGN NUMBER (SEE SCHEDULE)

VICINITY MAP



GENERAL NOTES

- PROTECT AND PRESERVE ALL BUILDING AREAS THAT ARE TO REMAIN FOR THE DURATION OF THE PROJECT. ANY DAMAGE IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE BY A CONTRACTOR EXPERIENCED WITH THE TYPE OF WORK.
- DRAWINGS SHALL BE PRINTED AND VIEWED IN COLOR. THOSE NOT PRINTED / VIEWED IN COLOR ARE CONSIDERED INACCURATE.
- ALL ROOF EQUIPMENT, ELECTRICAL CONDUIT, FIXTURES, AND MISCELLANEOUS. ROOF ACCESSORIES IN THE WAY OF THE WORK ARE TO BE TEMPORARILY REMOVED AND REINSTALLED AT THE END OF WORK UNLESS OTHERWISE NOTED.

MATERIAL LEGEND

	WOOD, ROUGH
	WOOD, FINISH
	PLYWOOD
	GWB
	CONCRETE
	EARTH FILL
	GRAVEL
	STEEL
	MASONRY
	INSULATION, BATT OR LOOSE FILL
	INSULATION, RIGID
	INSULATION, FOAM
	INSULATION, FOAM
	CERAMIC/QUARRY TILE

PROJECT TEAM

OWNER

LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261
PH: (360) 468-2265

DARREN HOERNER, LIBRARY DIRECTOR
DARREN@LOPEZLIBRARY.ORG

ANN GRECH, BOARD OF TRUSTEES CHAIR
AGRECH5@GMAIL.COM

ARCHITECT

HKP ARCHITECTS
204 WEST MONTGOMERY STREET
MOUNT VERNON, WA 98273
PH: (360) 336-2155
BRIAN POPPE, PARTNER-IN-CHARGE
BPOPPE@HKPA.COM

CHRISTINE BALDWIN, ASSOCIATE / PROJECT MANAGER
CBALDWIN@HKPA.COM

REBECCA WOLFE, PROJECT ARCHITECT
RWOLFE@HKPA.COM

KELLY RAY, ARCHITECTURAL STAFF
KRAY@HKPA.COM

STRUCTURAL ENGINEER

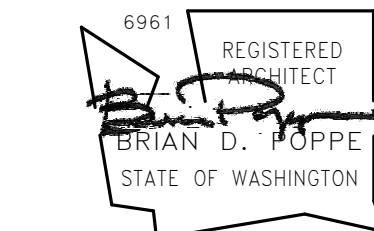
KINGWORKS STRUCTURAL ENGINEERING
600 DUPONT STREET
BELLINGHAM, WA 98225
PH: (360) 714-6260
JACK KING
JACK@KINGWORKS-SE.COM

COST ESTIMATOR

RIDER LEVETT BUCKNALL
1120 NW COUCH STREET
PORTLAND, OR 97209
PH: (503) 226-2730
DUSTIN HETTMAN
DUSTIN.HETTMAN@US.RLB.COM

DRAWING INDEX

A0.00	COVER SHEET
A0.10	DRAWING INDEX, TEAM, LEGEND, SYMBOLS & ABBREVIATIONS
A0.20	CODE INFORMATION AND DIAGRAMS
A0.21	ROOF DRAINAGE CALCULATIONS
A0.30	BUILDING ASSEMBLIES
A1.10	SITE PLAN
A2.20	ROOF PLAN - DEMOLITION
A2.21	ROOF PLAN
A4.30	ROOF DETAILS - STEEP SLOPE
A4.30.1	ROOF DETAILS - STEEP SLOPE
A4.30.2	ROOF DETAILS - STEEP SLOPE
A4.31	ROOF DETAILS - LOW SLOPE
A4.31.1	ROOF DETAILS - LOW SLOPE
A6.10	INTERIOR ELEVATIONS & ENLARGED PLANS
S1.10	STRUCTURAL NOTES & DETAILS



Owner:
LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Project Title:
LOPEZ ISLAND LIBRARY REROOF
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Sheet Contents:
DRAWING INDEX, TEAM,
LEGEND, SYMBOLS &
ABBREVIATIONS

Revisions:
Rev. Date

Drawn By: KR, RW
Checked: CB, BP
Date: 10/29/2026

Job No.: 736

Sheet No.:

A0.10

ZONING INFORMATION

PROJECT DESCRIPTION	
REROOFING THE EXISTING LOPEZ ISLAND LIBRARY BUILDING TO ALLOW ITS CONTINUED USE.	
THE PROJECT CONSISTS OF DEMOLISHING EXISTING 3-TAB ASPHALT SHINGLE ROOFING AT HIGH-SLOPE ROOFS DOWN TO EXISTING SHEATHING AND REPLACING WITH ARCHITECTURAL ASPHALT SHINGLE ROOFING, UNDERLAYMENT, AND ASSOCIATED FLASHINGS. AT LOW-SLOPE ROOFS, THE SCOPE INCLUDES DEMOLISHING EXISTING ASPHALT AND TPO ROOFING SYSTEMS DOWN TO EXISTING SHEATHING AND REPLACING WITH MODIFIED BITUMEN ROOFING, INCLUDING REPLACEMENT OF INSULATION ABOVE DECK PER CURRENT WSEC REQUIREMENTS. THE PROJECT ALSO INCLUDES MINOR INTERIOR REPAIRS AT AN AREA OF WATER DAMAGE.	
APPLICABLE CODES	
2021 INTERNATIONAL BUILDING CODE (IBC) AND AMENDMENTS 2021 WASHINGTON STATE WILDLAND URBAN INTERFACE CODE 2021 INTERNATIONAL MECHANICAL CODE (IMC) AND AMENDMENTS 2021 INTERNATIONAL FUEL GAS CODE (IFGC) AND AMENDMENTS 2021 INTERNATIONAL FIRE CODE (IFC) AND AMENDMENTS 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) AND AMENDMENTS 2021 UNIFORM PLUMBING CODE (UPC) AND AMENDMENTS 2021 NATIONAL ELECTRIC CODE (NEC) AND AMENDMENTS 2021 WASHINGTON STATE ENERGY CODE (WSEC) 2021 WASHINGTON STATE VENTILATION AND INDOOR AIR QUALITY CODE (VIAQ) ICC/ANSI A117.1-2009	
NOTE: 2021 WASHINGTON STATE WILDLAND URBAN INTERFACE CODE DOES NOT APPLY AS IT HAS NOT BEEN FORMALLY ADOPTED.	
SITE & LAND USE INFORMATION	
NO CHANGES TO BUILDING USE, FOOTPRINT, OR OCCUPANCY ARE EXPECTED WITH THE CURRENT PROJECT. INFO BELOW IS AS PRESENTED IN 2010 CONSTRUCTION DRAWINGS FOR READING ROOM ADDITION, PERMIT BUILDG-10-0257, WITH ADDITIONS FROM 2026 SAN JUAN COUNTY PARCEL RECORDS.	
SITE ADDRESS	2225 FISHERMAN BAY ROAD LOPEZ ISLAND, WA 98261
PARCEL NUMBER	251433011000
PROPERTY ID	6831
LEGAL DESCRIPTION	LOT #1 OF BAY ORCHARD, A SHORT PLAT IN SECTION 14, TOWNSHIP 35 NORTH, RANGE -W.W.M., IN SAN JUAN COUNTY, WASH. AS RECORDED IN VOL. 5 OF SHORT PLATS, PAGE 23 RECORDS OF SAN JUAN COUNTY, WASH.
JURISDICTION	SAN JUAN COUNTY
ZONING	LOPEZ VILLAGE URBAN GROWTH AREA (LUGA)
LAND USE CODE	VI
LAND USE TYPE	LOPEZ VILLAGE INSTITUTIONAL
NEIGHBORHOOD CODE	31016
NEIGHBORHOOD	LOPEZ VILLAGE - AREA 01 - COMM
LAND AREA	1.25 ACRES (NO CHANGE)
IMPERVIOUS AREA	NO CHANGE

BUILDING CODE INFORMATION

NO CHANGES TO BUILDING USE, FOOTPRINT, OR OCCUPANCY ARE EXPECTED WITH THE CURRENT PROJECT. INFO BELOW, WHERE NOTED, IS AS PRESENTED IN 2010 CONSTRUCTION DRAWINGS FOR READING ROOM ADDITION, PERMIT BUILDG-10-0257.

CHAPTER 3: OCCUPANCY CLASSIFICATION AND USE

CLASSIFICATION		
EXISTING (NO CHANGE)	A-3, LIBRARY	2021 IBC 303.4

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS

ALLOWABLE AREA		
EXISTING (NO CHANGE)	5,696 SF	
ALLOWED	6,000 SF	2021 IBC TABLE 506.2 WITHOUT AREA FACTOR INCREASE
BUILDING HEIGHT / STORIES	NO CHANGE	2021 IBC SECTION 504.3

CHAPTER 6: TYPES OF CONSTRUCTION

CONSTRUCTION CLASSIFICATION		
EXISTING (NO CHANGE)	TYPE V NON-SPRINKLERED	2021 IBC 602.5
FIRE RESISTANCE RATING REQUIREMENTS		
PRIMARY STRUCTURAL FRAME	0 HR	2021 IBC TABLE 601
BEARING WALLS - EXTERIOR	0 HR	2021 IBC TABLE 601
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR	2021 IBC TABLE 601

EXISTING BUILDING CODE INFO.

CHAPTER 2: DEFINITIONS

REROOFING	THE PROCESS OF RECOVERING OR REPLACING AN EXISTING ROOF COVERING. SEE "ROOF RECOVER" AND "ROOF REPLACEMENT."
ROOF REPLACEMENT	THE PROCESS OF REMOVING THE EXISTING ROOF COVERING, REPAIRING ANY DAMAGED SUBSTRATE AND INSTALLING A NEW ROOF COVERING.

CHAPTER 7: ALTERATIONS - LEVEL 1

SECTION 705.1 GENERAL		
PROPOSED	COMPLY WITH SECTION CHAPTER 15 OF THE IBC.	
REQUIRED	COMPLY WITH SECTION CHAPTER 15 OF THE IBC.	
SECTION 705.2 ROOF REPLACEMENT		
PROPOSED	REMOVAL OF ALL EXISTING ROOF COVERINGS DOWN TO ROOF DECK, INCLUDING ANY ICE BARRIER MEMBRANE OR UNDERLAYMENT. REPLACEMENT OF UNDERLAYMENT AND ROOF COVERING.	
REQUIRED	ROOF REPLACEMENT SHALL INCLUDE REMOVAL OF ALL EXISTING LAYERS OF ROOF COVERINGS DOWN TO ROOF DECK, WITH EXCEPTION THAT ICE BARRIER MEMBRANE MAY REMAIN AND COVERED WITH AN ADDITIONAL LAYER OF ICE BARRIER MEMBRANE.	705.2, EXCEPTION.

WASHINGTON STATE ENERGY CODE (WSEC) - COMMERCIAL

GENERAL WSEC NOTES

DEFINITIONS

1. **ROOF REPLACEMENT:** THIS PROJECT IS A "ROOF REPLACEMENT" PER WSEC DEFINITION.

ENVELOPE ASSEMBLIES

1. **INSULATION AT EXISTING ROOF ASSEMBLIES:** EXISTING INSULATION SHALL BE LEFT UNDISTURBED AT EXISTING ROOF ASSEMBLIES WHERE THE INSULATION IS ENTIRELY BELOW DECK. EXISTING INSULATION SHALL BE DEMOLISHED AT EXISTING ROOF ASSEMBLIES WHERE THE INSULATION IS ENTIRELY ABOVE DECK, AND SHALL BE REPLACED WITH INSULATION MEETING CURRENT WSEC REQUIREMENTS. SEE CODE DETAILS BELOW.
2. **THERMAL ENVELOPE COMPLIANCE PATH:** THE SELECT ROOF ASSEMBLIES SUBJECT TO WSEC BUILDING ENVELOPE REQUIREMENTS SHALL COMPLY WITH THE PRESCRIPTIVE THERMAL PERFORMANCE COMPLIANCE PATH, R-VALUE METHOD.
3. **GENERAL INSULATION INSTALLATION:** WHERE TWO OR MORE LAYERS OF RIGID INSULATION WILL BE USED, EDGE JOINTS BETWEEN LAYERS SHALL BE STAGGERED.
4. **INSULATION IDENTIFICATION:**
- A. FOR INSULATION MATERIALS THAT ARE PROVIDED WITH A MANUFACTURER'S R-VALUE IDENTIFICATION MARK, THE INSULATION SHALL BE INSTALLED SUCH THAT THE MARK IS READILY OBSERVABLE DURING INSPECTION.
- B. FOR INSULATION MATERIALS THAT ARE NOT INSTALLED WITH AN R-VALUE IDENTIFICATION MARK, CONTRACTOR SHALL PROVIDE AN INSULATION CERTIFICATE PER SECTION C303.1.1 IMMEDIATELY AFTER INSTALLATION IN A CONSPICUOUS LOCATION IN THE BUILDING SO IT IS READILY AVAILABLE DURING INSPECTION.

AIR BARRIER & AIR LEAKAGE TEST

1. **AIR BARRIERS ARE NOT REQUIRED** FOR ROOF REPLACEMENTS PER C503.1, EXCEPTION 6.
2. **AIR LEAKAGE TESTING IS NOT REQUIRED** PER C503.3, AS NO CHANGE IN SPACE CONDITIONING OR OCCUPANCY ARE EXPECTED WITH THE CURRENT PROJECT.

PROJECT CLOSEOUT

4. **DOCUMENTATION AND SUBMITTAL REQUIREMENTS:**
- A. CONTRACTOR SHALL PROVIDE PROJECT CLOSEOUT DOCUMENTATION INCLUDING ENVELOPE RECORD CONSTRUCTION DOCUMENTS, APPLICABLE CALCULATIONS, AND WSEC ENVELOPE COMPLIANCE REPORTS.
- B. CLOSE OUT DOCUMENTATION SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN A MAXIMUM OF 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
- C. REFERENCE SECTION C103.6 FOR MORE INFORMATION.
5. **THERMAL ENVELOPE CERTIFICATE:** A THERMAL ENVELOPE CERTIFICATE IS REQUIRED AT PROJECT CLOSE OUT; INFORMATION ON THIS CERTIFICATE SHALL INCLUDE THE RATED R-VALUES OF ALL OPAQUE ASSEMBLY INSULATION. REFERENCE SECTION C401.4 FOR MORE INFORMATION.

CHAPTER 3: GENERAL REQUIREMENTS

SECTION C301.1 - CLIMATE ZONES - GENERAL

PROPOSED	4C	
REQUIRED	4C - SAN JUAN COUNTY	TABLE C301.1

CHAPTER 4: COMMERCIAL ENERGY EFFICIENCY

SECTION C401.2 - APPLICATION

PROPOSED	PRESCRIPTIVE	
REQUIRED	PRESCRIPTIVE COMPLIANCE, TOTAL BUILDING PERFORMANCE, OR OUTCOME-BASED ENERGY BUDGET	C401.2

SECTION C401.4 - THERMAL ENVELOPE CERTIFICATE

PROPOSED	LOCATE IN MECHANICAL ROOM (LOCATED IN PARTIAL BASEMENT). INCLUDE ONLY R-VALUES FOR ASSEMBLIES WITH NEW INSULATION.	
REQUIRED	POSTING OF PERMANENT THERMAL ENVELOPE	C401.4

SECTION C402.2.1 - THERMAL ENVELOPE REQUIREMENTS - ROOF ASSEMBLY

PROPOSED	R-38CI	
REQUIRED	R-38CI	TABLE C402.1.3, ABOVE ROOF DECK

SECTION C402.2.2 - THERMAL ENVELOPE REQUIREMENTS - ABOVE-GRADE WALLS

PROPOSED	R-19 (R-3.45 PER INCH)	ONLY AT EXISTING WALLS WHERE INTERIOR WATER-DAMAGED DRYWALL IS BEING REMOVED. EXISTING DRYWALL, VAPOR BARRIER, AND INSULATION WILL BE REPLACED IN KIND.
REQUIRED	REPAIR WITH LIKE INSULATION TO FULL DEPTH OF STUD.	C503.1, EXCEPTION 3 AND C501.4

SECTION C402.2.3 - THERMAL ENVELOPE REQUIREMENTS - FLOORS

DOES NOT APPLY

SECTION C402.2.4 - THERMAL ENVELOPE REQUIREMENTS - SLABS-ON-GRADE

DOES NOT APPLY

SECTION C402.4 - FENESTRATION

DOES NOT APPLY

CHAPTER 5: EXISTING BUILDINGS

SECTION C501.4 - NEW AND REPLACEMENT MATERIALS

LIKE MATERIALS SHALL BE USED FOR REPAIRS AS PERMITTED BY THIS SECTION.

SECTION C503.3.1 - ROOF REPLACEMENT

ROOF ASSEMBLIES WITH EXISTING INSULATION LOCATED ENTIRELY ABOVE ROOF DECK

PROPOSED	PROVIDE INSULATION MEETING REQUIREMENTS OF TABLE C402.1.3 AND AS INDICATED IN SECTION C402.2.1 ABOVE.	
REQUIRED	EXISTING ROOF ASSEMBLIES WHERE INSULATION IS LOCATED ENTIRELY ABOVE ROOF DECK MUST COMPLY W/ PRESCRIPTIVE THERMAL ENVELOPE REQUIREMENTS USING R-VALUE OR U-FACTOR METHODS.	C503.3.1

ROOF ASSEMBLIES WITH EXISTING INSULATION LOCATED ENTIRELY BELOW ROOF DECK

PROPOSED	NO CHANGE	
REQUIRED	EXISTING ASSEMBLY CAVITIES NOT EXPOSED DURING CONSTRUCTION, OR EXPOSED BUT HAVING EXISTING INSULATION TO FULL DEPTH, NEED NOT MEET REQUIREMENTS FOR NEW CONSTRUCTION.	C503.1, EXCEPTIONS 3 & 4

SECTION C503.4 - BUILDING MECHANICAL SYSTEMS

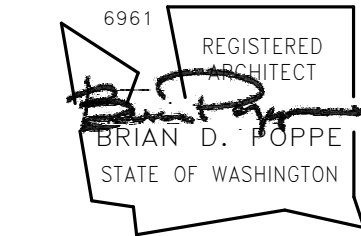
NO CHANGES TO THE EXISTING SYSTEMS ARE EXPECTED WITH THE CURRENT PROJECT.

SECTION C503.5 - SERVICE WATER HEATING EQUIPMENT

NO CHANGES TO THE EXISTING SYSTEMS ARE EXPECTED WITH THE CURRENT PROJECT.

SECTION C503.4 - ELECTRICAL POWER AND LIGHTING SYSTEMS

NO CHANGES TO THE EXISTING SYSTEMS ARE EXPECTED WITH THE CURRENT PROJECT.



Owner:
LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Project Title:
LOPEZ ISLAND LIBRARY REROOF
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Sheet Contents:
CODE INFORMATION AND
DIAGRAMS

Revisions:
Rev. Date

Drawn By: KR, RW
Checked: CB, BP
Date: 10/29/2026

Job No.:
736
Sheet No.:

ROOF DRAINAGE CALCULATIONS

ROOF AREAS SHARE DOWNSPOUT AND/OR GUTTER, SEE NOTES

NOTE: DOWNSPOUT AND GUTTER SIZES INDICATED IN THESE CALCULATIONS ARE THE MINIMUM RECOMMENDED SIZES. REFER TO SPECIFICATIONS FOR SPECIFIED GUTTER AND DOWNSPOUT SIZES THAT EITHER MEET OR EXCEED THOSE DEPICTED ON THIS SHEET.

ROOF AREA (A)	
ROOF SLOPE	12" / 12"
PLAN AREA	371 SF
LINEAR FEET OF GUTTER	28' - 9"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 354 SF (1.30) 482 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 482 SF / 1 482 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 461 SF / (360 SF/SQUARE INCHES) 1.34 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 5" LEVEL HALF-ROUND

ROOF AREA (B)	
ROOF SLOPE	12" / 12"
PLAN AREA	297 SF
LINEAR FEET OF GUTTER	8' - 6"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 297 SF (1.30) 387 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 387 SF / 1 387 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 387 SF / (360 SF/SQUARE INCHES) 1.07 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 4" LEVEL HALF-ROUND

ROOF AREA (C)	
ROOF SLOPE	12" / 12" (~AVG. - CUPOLA SLOPE VARIES)
PLAN AREA	341 SF
LINEAR FEET OF GUTTER	11' - 6"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES AT RIGHT)
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 341 SF (1.30) 444 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 444 SF / 1 444 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 444 SF / (360 SF/SQUARE INCHES) 1.24 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 5" LEVEL HALF-ROUND

ROOF AREA (D)	
ROOF SLOPE	4" / 12"
PLAN AREA	56 SF
LINEAR FEET OF GUTTER	8' - 0"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES AT RIGHT)
ROOF AREA PITCH MULTIPLIER	1.05
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 56 SF (1.05) 59 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 59 SF / 1 59 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 59 SF / (360 SF/SQUARE INCHES) 0.17 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 3" LEVEL HALF-ROUND

ROOF AREA (E)	
ROOF SLOPE	12" / 12"
PLAN AREA	340 SF
LINEAR FEET OF GUTTER	23' - 0"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES AT RIGHT)
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 340 SF (1.30) 442 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 442 SF / 1 442 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 442 SF / (360 SF/SQUARE INCHES) 1.23 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 5" LEVEL HALF-ROUND

JOINT DOWNSPOUT FOR AREAS (C)(D)(E)	
DS MIN. AREAS	
(C)	1.24 SQ IN
(D)	0.17 SQ IN
(E)	1.23 SQ IN
TOTAL	2.64 SQ IN
JOINT DOWNSPOUT SIZE:	
3" PLAIN ROUND	

ROOF AREA (F) NOTE: DRAINS TO GUTTER FOR ROOF AREA H	
ROOF SLOPE	12" / 12"
PLAN AREA	340 SF
LINEAR FEET OF GUTTER	25' - 0"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES AT RIGHT)
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 340 SF (1.30) 442 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 442 SF / 1 442 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 442 SF / (360 SF/SQUARE INCHES) 1.23 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 5" LEVEL HALF-ROUND

ROOF AREA (G) NOTE: DRAINS TO GUTTER FOR ROOF AREA H	
ROOF SLOPE	12" / 12"
PLAN AREA	692 SF
LINEAR FEET OF GUTTER	28' - 6"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES AT RIGHT)
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 692 SF (1.30) 900 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 900 SF / 1 900 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 900 SF / (360 SF/SQUARE INCHES) 2.50 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 6" LEVEL HALF-ROUND

ROOF AREA (H)	
ROOF SLOPE	1/4" / 12"
PLAN AREA	80 SF
LINEAR FEET OF GUTTER	3' - 3"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES AT RIGHT)
ROOF AREA PITCH MULTIPLIER	1.00
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 80 SF (1.00) 80 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 80 SF / 1 80 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 80 SF / (360 SF/SQUARE INCHES) 0.23 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 7" LEVEL HALF-ROUND

JOINT DOWNSPOUT FOR AREAS (F)(G)(H)	
DS MIN. AREAS	
(F)	1.23 SQ IN
(G)	2.50 SQ IN
(H)	0.23 SQ IN
TOTAL	3.96 SQ IN
JOINT DOWNSPOUT SIZE:	
3" PLAIN ROUND	

NOTE: GUTTER SIZING INCLUDES AREAS F & G THAT DRAIN INTO THE GUTTER FOR AREA H

ROOF AREA (J) NOTE: DRAINS TO GUTTER FOR ROOF AREA K	
ROOF SLOPE	12" / 12"
PLAN AREA	1,122 SF
LINEAR FEET OF GUTTER	51' - 0"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES BELOW RIGHT)
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 1,122 SF (1.30) 1,459 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 1,459 SF / 1 1,459 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 1,459 SF / (360 SF/SQUARE INCHES) 4.06 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 7" LEVEL HALF-ROUND

ROOF AREA (K)	
ROOF SLOPE	1/4" / 12"
PLAN AREA	91 SF
LINEAR FEET OF GUTTER	3' - 1"
QUANTITY OF DOWNSPOUTS	1 (SHARED - SEE NOTES BELOW RIGHT)
ROOF AREA PITCH MULTIPLIER	1.00
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 91 SF (1.00) 91 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 91 SF / 1 91 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 91 SF / (360 SF/SQUARE INCHES) 0.26 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	SEE JOINT DS SIZE / 7" LEVEL HALF-ROUND

JOINT DOWNSPOUT FOR AREAS (J)(K)	
DS MIN. AREAS	
(J)	4.06 SQ IN
(K)	0.26 SQ IN
TOTAL	4.32 SQ IN
JOINT DOWNSPOUT SIZE:	
3" PLAIN ROUND	

NOTE: GUTTER SIZING INCLUDES AREA J THAT DRAINS INTO THE GUTTER FOR AREA K

ROOF AREA (L)	
ROOF SLOPE	12" / 12"
PLAN AREA	242 SF
LINEAR FEET OF GUTTER	14' - 9"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 242 SF (1.30) 315 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 315 SF / 1 315 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 315 SF / (360 SF/SQUARE INCHES) 0.88 SQUARE INCHES PER DOWNSPOUT
NOTE: SIZING INCL. AREA M	
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 5" LEVEL HALF-ROUND

ROOF AREA (M) NOTE: DRAINS TO ROOF AREA L	
ROOF SLOPE	12" / 12" WITH 2" / 12" DORMER
PLAN AREA	185 SF (155 SF @12" / 12" + 30 SF @2" / 12")
LINEAR FEET OF GUTTER	11' - 9"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30 FOR 12" / 12" & 1.00 FOR 2" / 12"
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 155 SF (1.30) + 30 (1.00) 232 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 232 SF / 1 232 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 232 SF / (360 SF/SQUARE INCHES) 0.65 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 4" LEVEL HALF-ROUND

ROOF AREA (N)	
ROOF SLOPE	12" / 12"
PLAN AREA	376 SF
LINEAR FEET OF GUTTER	14' - 0"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 376 SF (1.30) 489 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 489 SF / 1 489 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 489 SF / (360 SF/SQUARE INCHES) 1.36 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 5" LEVEL HALF-ROUND

ROOF AREA (P)	
ROOF SLOPE	12" / 12"
PLAN AREA	346 SF
LINEAR FEET OF GUTTER	12' - 3"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 346 SF (1.30) 450 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 450 SF / 1 450 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 450 SF / (360 SF/SQUARE INCHES) 1.25 SQUARE INCHES PER DOWNSPOUT
NOTE: SIZING INCL. AREA Q	
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 5" LEVEL HALF-ROUND

ROOF AREA (Q) NOTE: DRAINS TO ROOF AREA P	
ROOF SLOPE	12" / 12" WITH 2" / 12" DORMER
PLAN AREA	80 SF (67 SF @12" / 12" + 13 SF @2" / 12")
LINEAR FEET OF GUTTER	5' - 0"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30 FOR 12" / 12" & 1.00 FOR 2" / 12"
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 67 SF (1.30) + 13 (1.00) 101 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 101 SF / 1 101 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 101 SF / (360 SF/SQUARE INCHES) 0.28 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 3" LEVEL HALF-ROUND

ROOF AREA (R)	
ROOF SLOPE	12" / 12"
PLAN AREA	204 SF
LINEAR FEET OF GUTTER	12' - 6"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 204 SF (1.30) 266 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 266 SF / 1 266 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 266 SF / (360 SF/SQUARE INCHES) 0.74 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 4" LEVEL HALF-ROUND

ROOF AREA (S) NOTE: DRAINS TO GUTTER FOR ROOF AREA T	
ROOF SLOPE	12" / 12"
PLAN AREA	277 SF
LINEAR FEET OF GUTTER	16' - 6"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 277 SF (1.30) 360 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 360 SF / 1 360 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 360 SF / (360 SF/SQUARE INCHES) 1.00 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 4" LEVEL HALF-ROUND

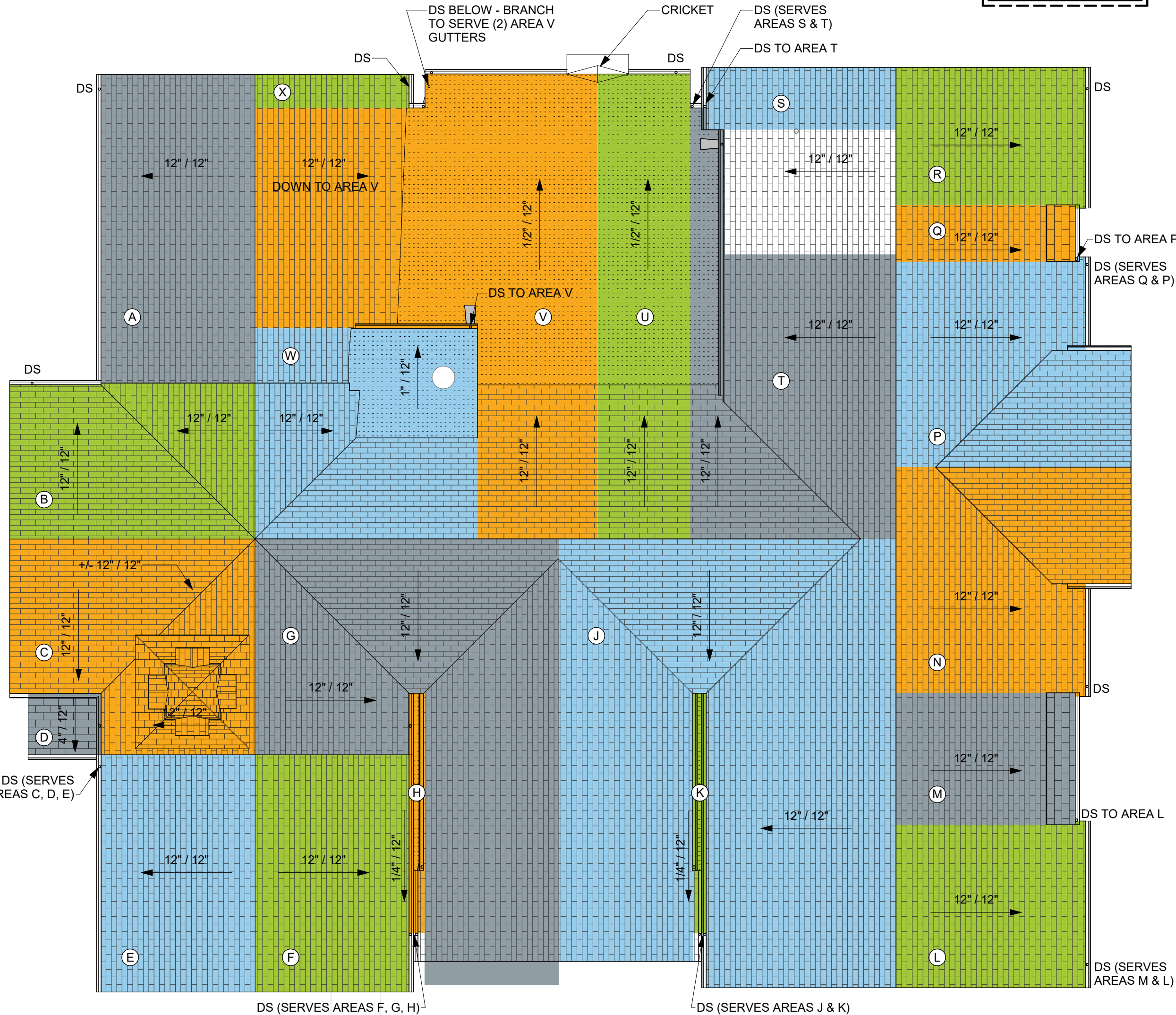
ROOF AREA (T)	
ROOF SLOPE	12" / 12" AND 1/2" / 12"
PLAN AREA	496 SF (421 SF @12" / 12" + 75 SF @1/2" / 12")
LINEAR FEET OF GUTTER	3' - 0"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30 FOR 12" / 12" & 1.00 FOR 1/2" / 12"
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 421 SF (1.30) + 75 (1.00) 623 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 623 SF / 1 623 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 623 SF / (360 SF/SQUARE INCHES) 1.73 SQUARE INCHES PER DOWNSPOUT
NOTE: SIZING INCL. AREA S	
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 6" LEVEL HALF-ROUND

ROOF AREA (U)	
ROOF SLOPE	12" / 12" AND 1/2" / 12"
PLAN AREA	336 SF (111 SF @12" / 12" + 225 SF @1/2" / 12")
LINEAR FEET OF GUTTER	5' - 6"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30 FOR 12" / 12" & 1.00 FOR 1/2" / 12"
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 111 SF (1.30) + 225 (1.00) 370 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 370 SF / 1 370 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 370 SF / (360 SF/SQUARE INCHES) 1.03 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 4" LEVEL HALF-ROUND

ROOF AREA (V)	
ROOF SLOPE	12" / 12" AND 1/2" / 12"
PLAN AREA	833 SF (397 SF @12" / 12" + 436 SF @1/2" / 12")
LINEAR FEET OF GUTTER	14' - 0"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30 FOR 12" / 12" & 1.00 FOR 1/2" / 12"
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 397 SF (1.30) + 436 (1.00) 933 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 933 SF / 1 933 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 933 SF / (360 SF/SQUARE INCHES) 2.65 SQUARE INCHES PER DOWNSPOUT
NOTE: SIZING INCL. AREA W	
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 7" LEVEL HALF-ROUND

ROOF AREA (W) NOTE: DRAINS TO ROOF AREA V	
ROOF SLOPE	12" / 12" AND 1" / 12"
PLAN AREA	366 SF (260 SF @12" / 12" + 106 SF @1" / 12")
LINEAR FEET OF GUTTER	10' - 9"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30 FOR 12" / 12" & 1.00 FOR 1" / 12"
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 260 SF (1.30) + 106 (1.00) 444 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 444 SF / 1 444 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 444 SF / (360 SF/SQUARE INCHES) 1.24 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 5" LEVEL HALF-ROUND

ROOF AREA (X)	
ROOF SLOPE	12" / 12"
PLAN AREA	41 SF
LINEAR FEET OF GUTTER	3' - 0"
QUANTITY OF DOWNSPOUTS	1
ROOF AREA PITCH MULTIPLIER	1.30
DESIGN AREA	PLAN AREA (ROOF AREA PITCH MULTIPLIER) 41 SF (1.30) 54 SF
DESIGN AREA PER DS	DESIGN AREA / QUANTITY OF DOWNSPOUTS 54 SF / 1 54 SF PER DOWNSPOUT
DOWNSPOUT MINIMUM AREA	DESIGN AREA / (360 SF/SQUARE INCHES) 54 SF / (360 SF/SQUARE INCHES) 0.15 SQUARE INCHES PER DOWNSPOUT
DOWNSPOUT / GUTTER SIZE	3" PLAIN ROUND / 3" LEVEL HALF-ROUND



1 ROOF DRAINAGE PLAN
1/8" = 1'-0"

DEMOLITION ROOF ASSEMBLIES - STEEP SLOPE

NOTE: SECTION VIEW

INSULATION NOTES:
1. INSULATION IS ASSUMED TO BE AT ATTIC FLOOR FOR ROOFS 1, 2, 3, 5, 6, 7, 8
2. INSULATION IS ASSUMED TO BE WITHIN JOIST CAVITY FOR ROOFS 8A, 8B, 8C
3. ROOF 4 IS UNINSULATED OVER UNCONDITIONED SPACE

R1D TYPICAL STEEP SLOPE ROOF - DEMOLITION ROOFS 1, 2, 3, 4, 5, 6, 7, 8, 8A, 8B, 8C

NOTE: SECTION VIEW

R2D STEEP SLOPE ROOF AT VAULTED CEILING - DEMOLITION ROOF 10

DEMOLITION ROOF ASSEMBLIES - LOW SLOPE

NOTE: SECTION VIEW

NOTE: EXISTING ROOF STRUCTURE APPEARS TO SLOPE. NO TAPERED INSULATION IS REQUIRED.

INSULATION NOTES:
1. INSULATION IS ASSUMED TO BE AT ATTIC FLOOR FOR ROOF 2A, WITH NO INSULATION ABOVE DECK.

R3D LOW SLOPE ROOF AT ASPHALT ROOFING - DEMOLITION ROOF 9, ROOF 2A SIM.

NOTE: SECTION VIEW

R4D LOW SLOPE ROOF AT TPO - DEMOLITION ROOF 11 & 12

ROOF ASSEMBLIES - STEEP SLOPE

NOTE: SECTION VIEW

R1 TYPICAL STEEP SLOPE ROOF - ASPHALT SHINGLE ROOFS 2, 3, 4, 5, 6, 7, 8, 8A, 8B, 8C

NOTE: SECTION VIEW

R2 TYPICAL STEEP SLOPE ROOF AT VAULTED CEILING - ASPHALT SHINGLE ROOF 10

ROOF ASSEMBLIES - LOW SLOPE

NOTE: SECTION VIEW

INSULATION NOTES:
1. INSULATION IS ASSUMED TO BE AT ATTIC FLOOR FOR ROOF 2A, WITH NO INSULATION REQUIRED ABOVE DECK.

R3 TYPICAL LOW SLOPE ROOF - MODIFIED BITUMEN ROOF 9, ROOF 2A SIM.

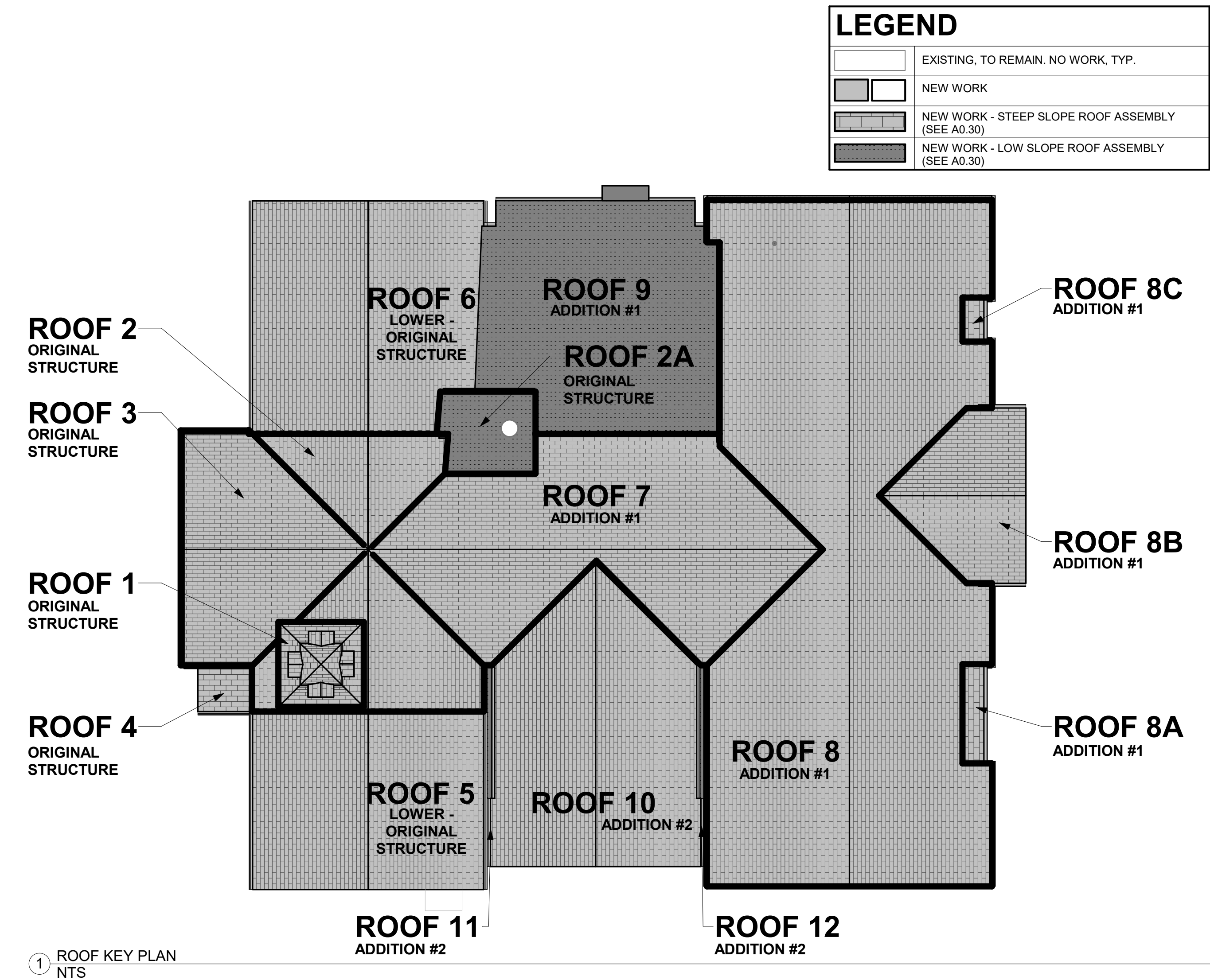
NOTE: SECTION VIEW

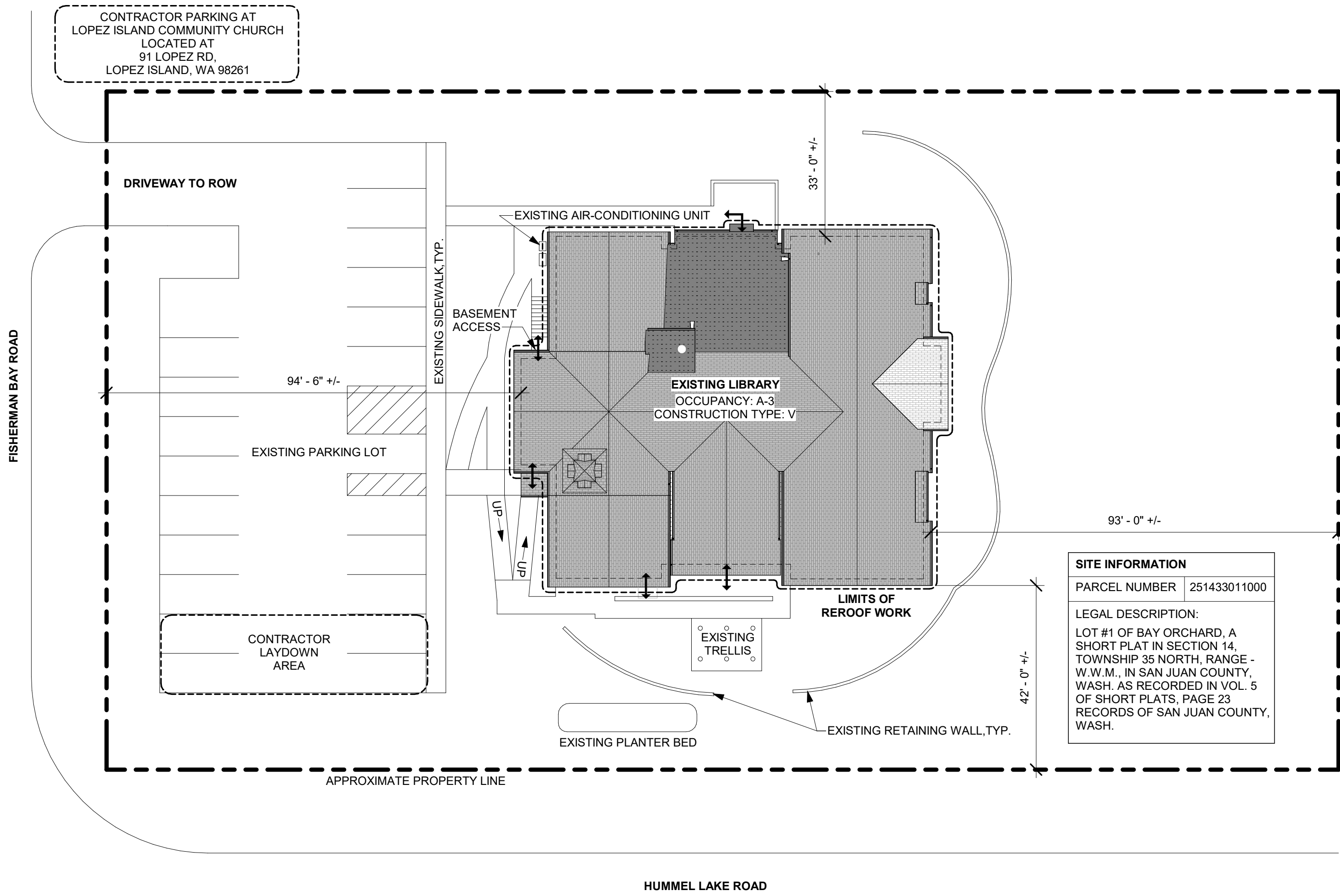
R4 TYPICAL LOW SLOPE ROOF - MODIFIED BITUMEN ROOFS 11 & 12

WALL ASSEMBLIES

W1D EXTERIOR WALL AT SUNROOM - DEMOLITION

W1 EXTERIOR WALL REPAIR AT SUNROOM





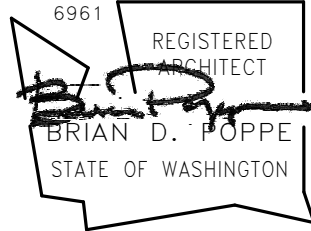
1 SITE PLAN
1" = 20'-0"

SITE PLAN LEGEND

↕

↶

INGRESS / EGRESS
CONTRACTOR IS RESPONSIBLE
FOR MAINTAINING INGRESS AND
EGRESS AT ALL TIMES



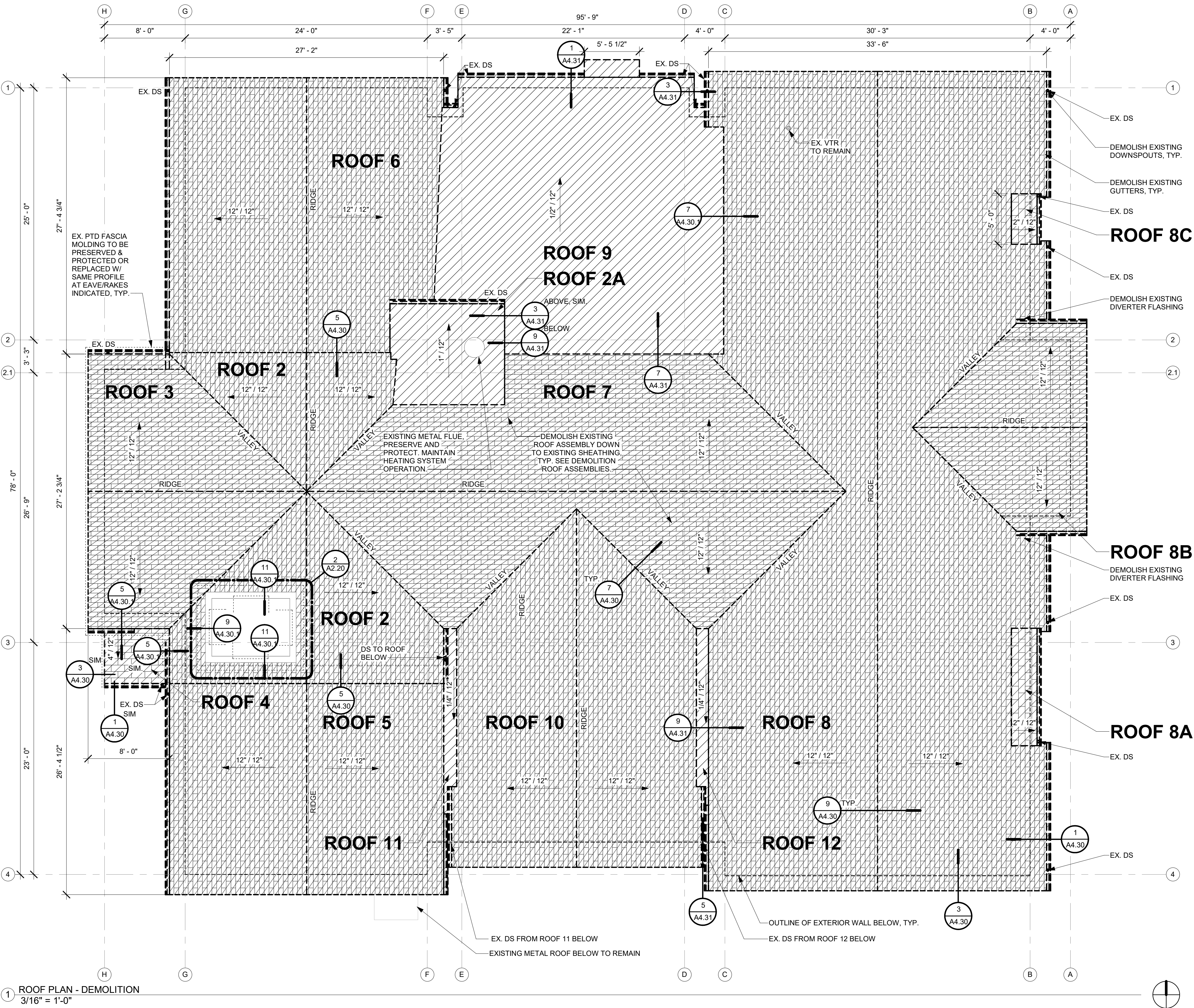
Owner:
LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Project Title:
LOPEZ ISLAND LIBRARY REROOF
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Sheet Contents:
SITE PLAN

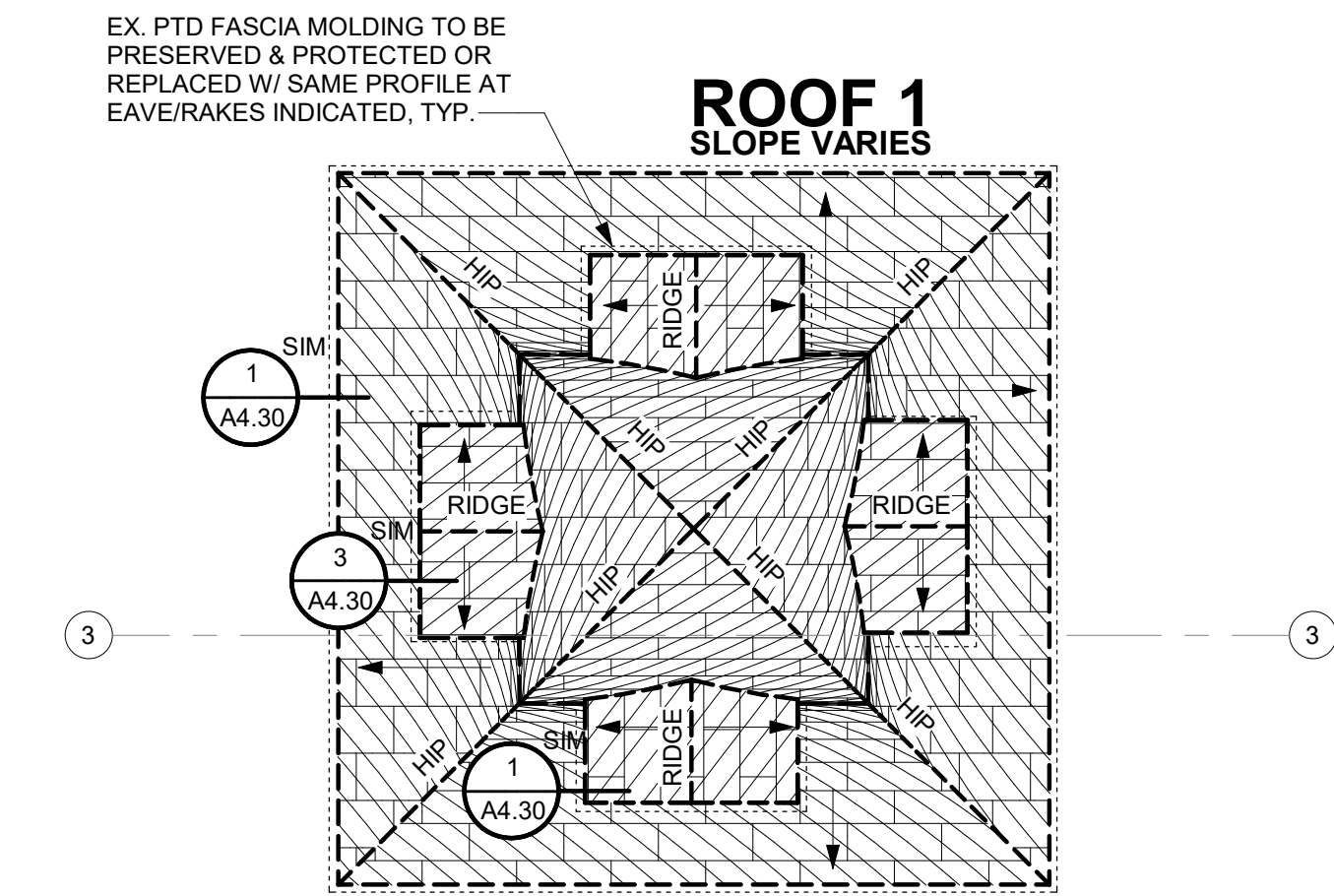
Revisions:
Rev. Date

Drawn By: KR, RW
Checked: CB, BP
Date: 10/29/2026
Job No.: 736
Sheet No.:

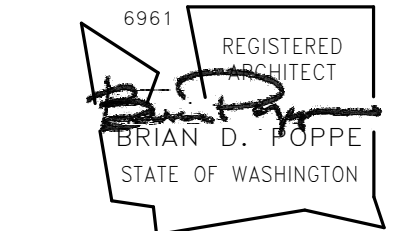


1 ROOF PLAN - DEMOLITION
3/16" = 1'-0"

DEMOLITION LEGEND	
	EXISTING, TO REMAIN. NO WORK, TYP.
	CONTRACTOR TO DEMOLISH
	CONTRACTOR TO TEMPORARILY REMOVE PRESERVE AND PROTECT FOR RE-INSTALL



2 ENLARGED CUPOLA ROOF PLAN - DEMOLITION
3/8" = 1'-0"



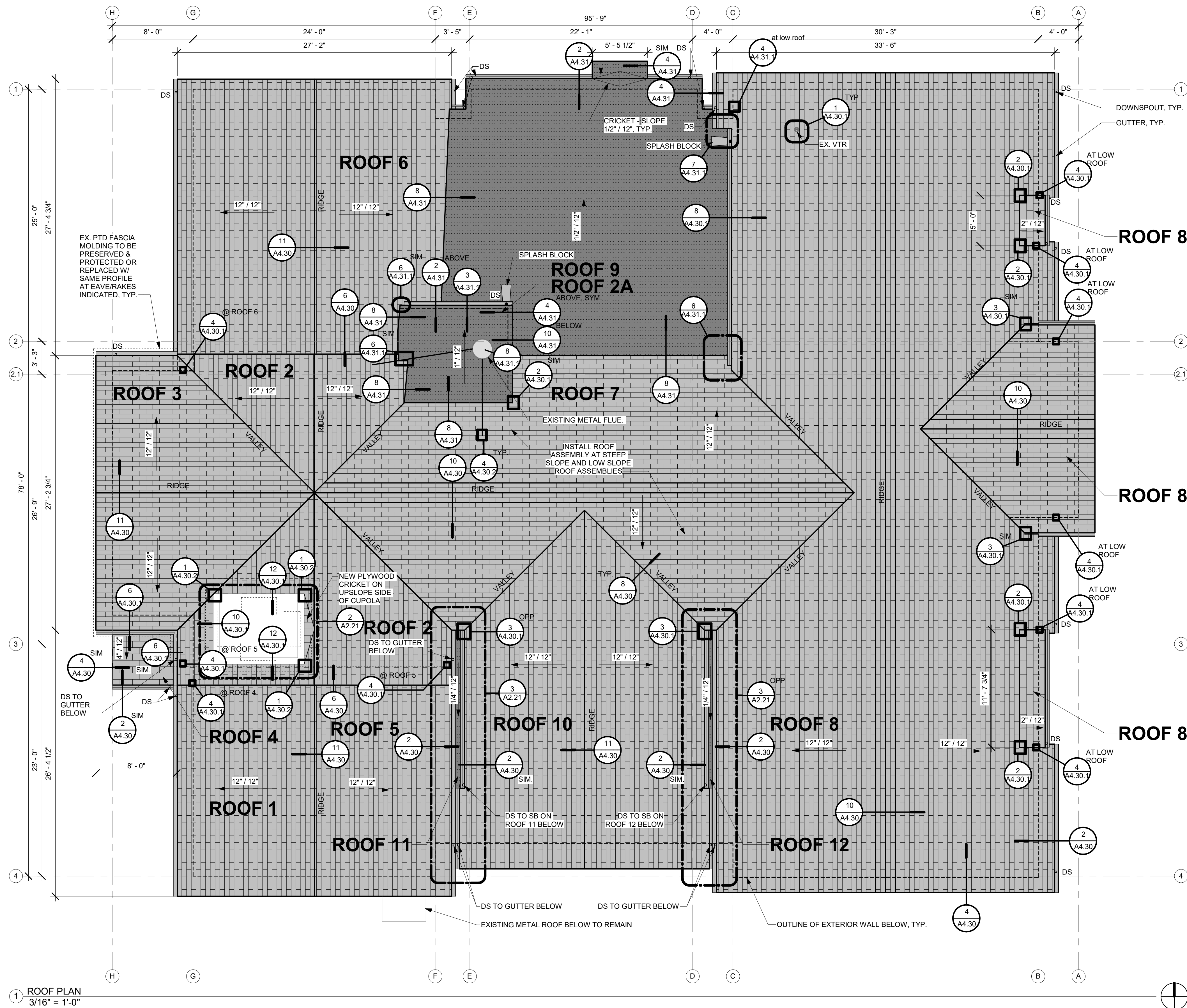
Owner:
LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Project Title:
LOPEZ ISLAND LIBRARY REROOF
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Sheet Contents:
ROOF PLAN -
DEMOLITION

Revisions:
Rev. Date

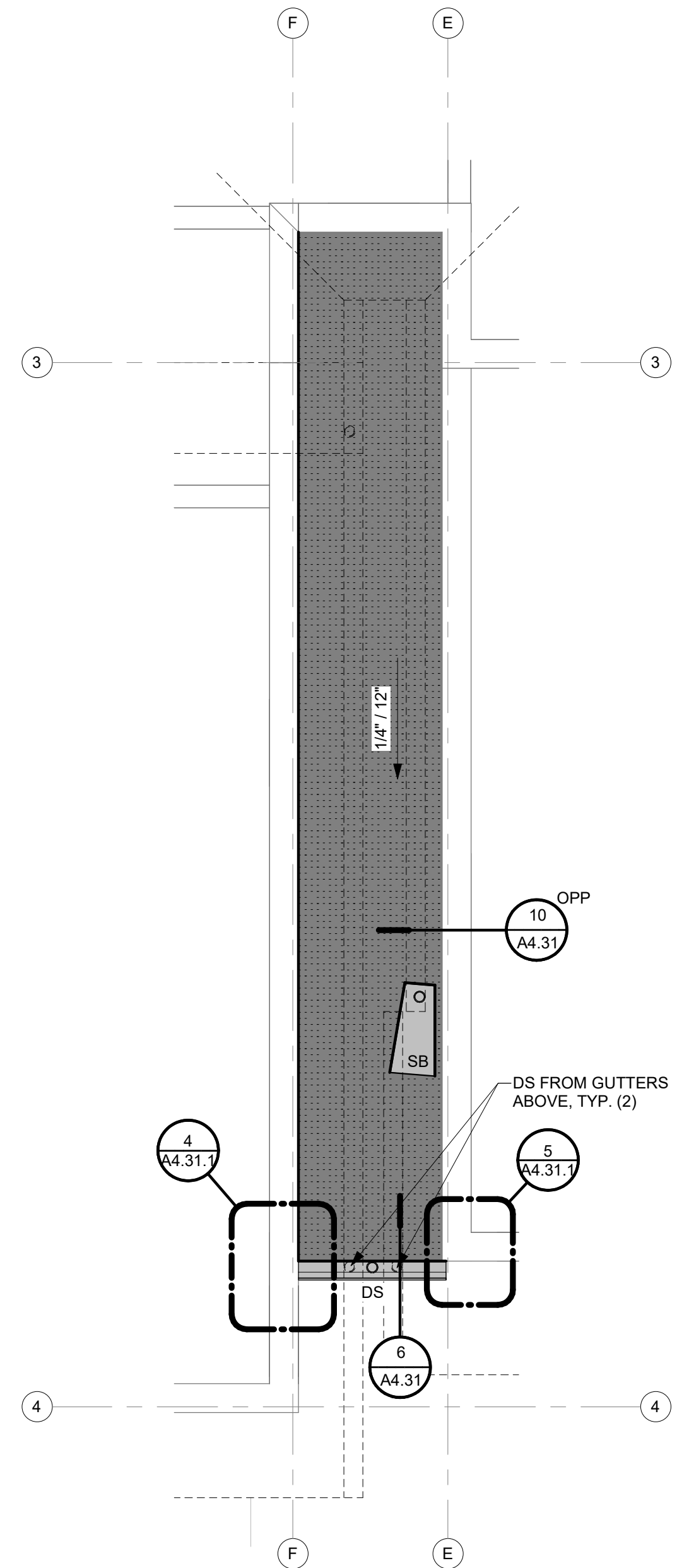
Drawn By: KR, RW
Checked: CB, BP
Date: 10/29/2026
Job No.: 736
Sheet No.:



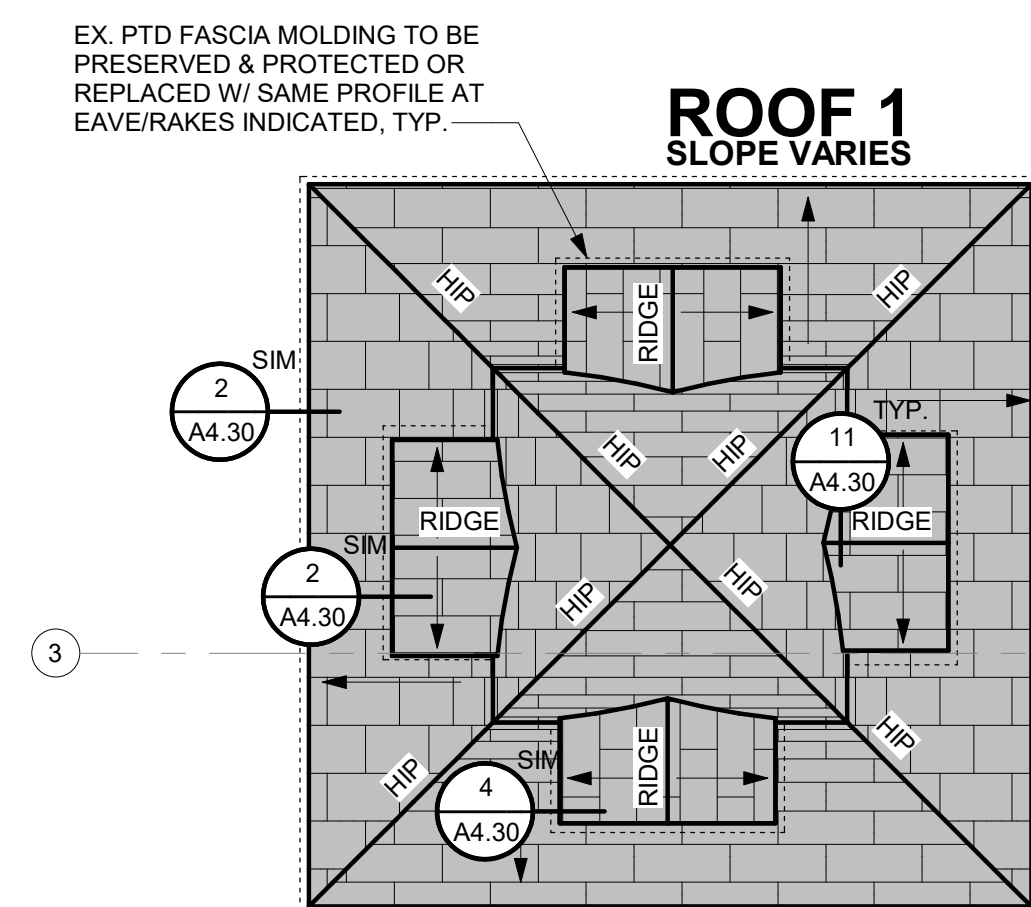
1 ROOF PLAN
3/16" = 1'-0"

LEGEND

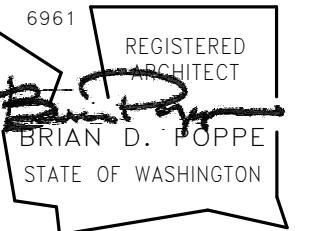
	EXISTING, TO REMAIN, NO WORK, TYP.
	NEW WORK
	NEW WORK - STEEP SLOPE ROOF ASSEMBLY (SEE A0.30)
	NEW WORK - LOW SLOPE ROOF ASSEMBLY (SEE A0.30)



3 ENLARGED ROOF 11 PLAN
3/8" = 1'-0"



2 ENLARGED CUPOLA ROOF PLAN
3/8" = 1'-0"



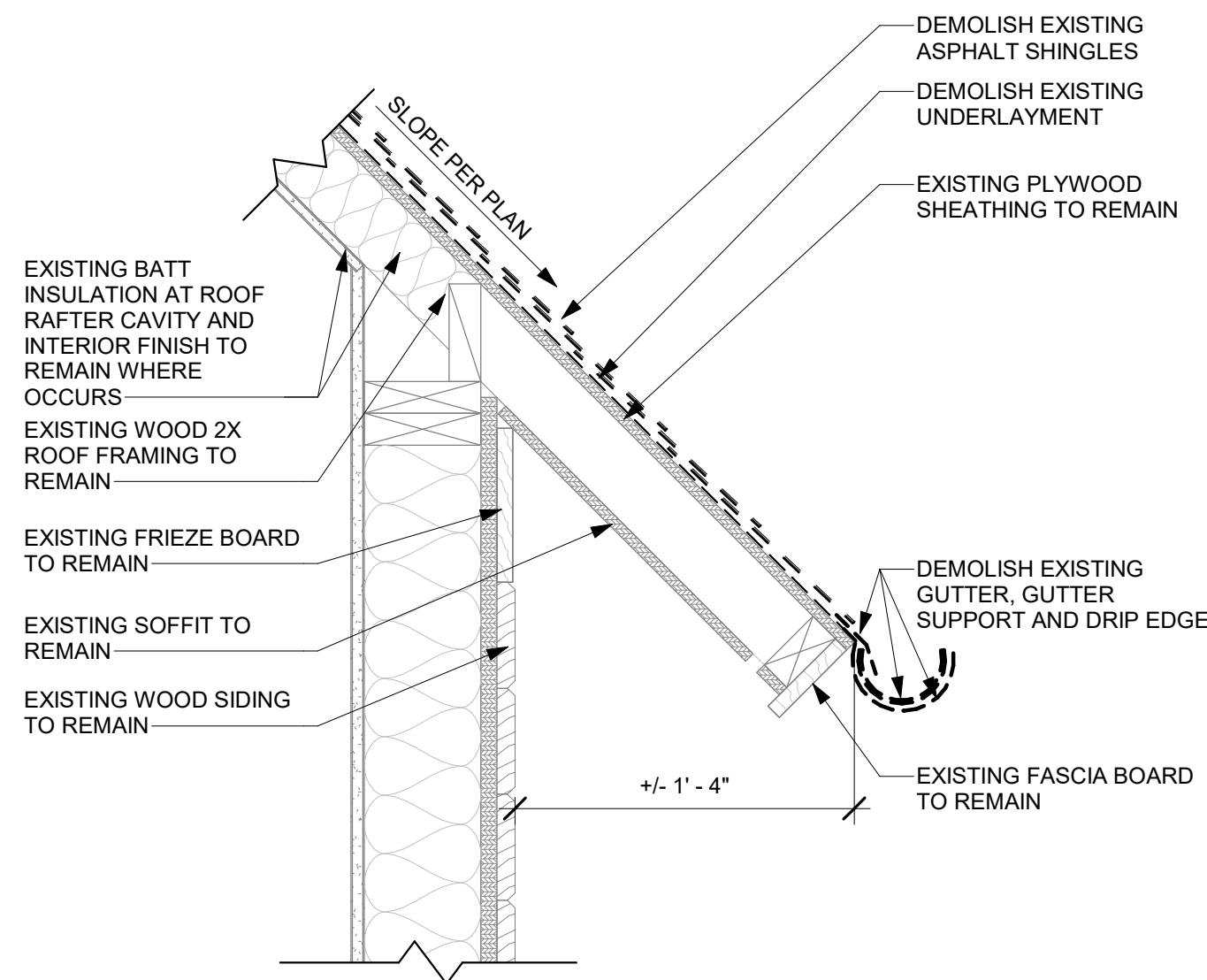
Owner:
LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Project Title:
LOPEZ ISLAND LIBRARY REROOF
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

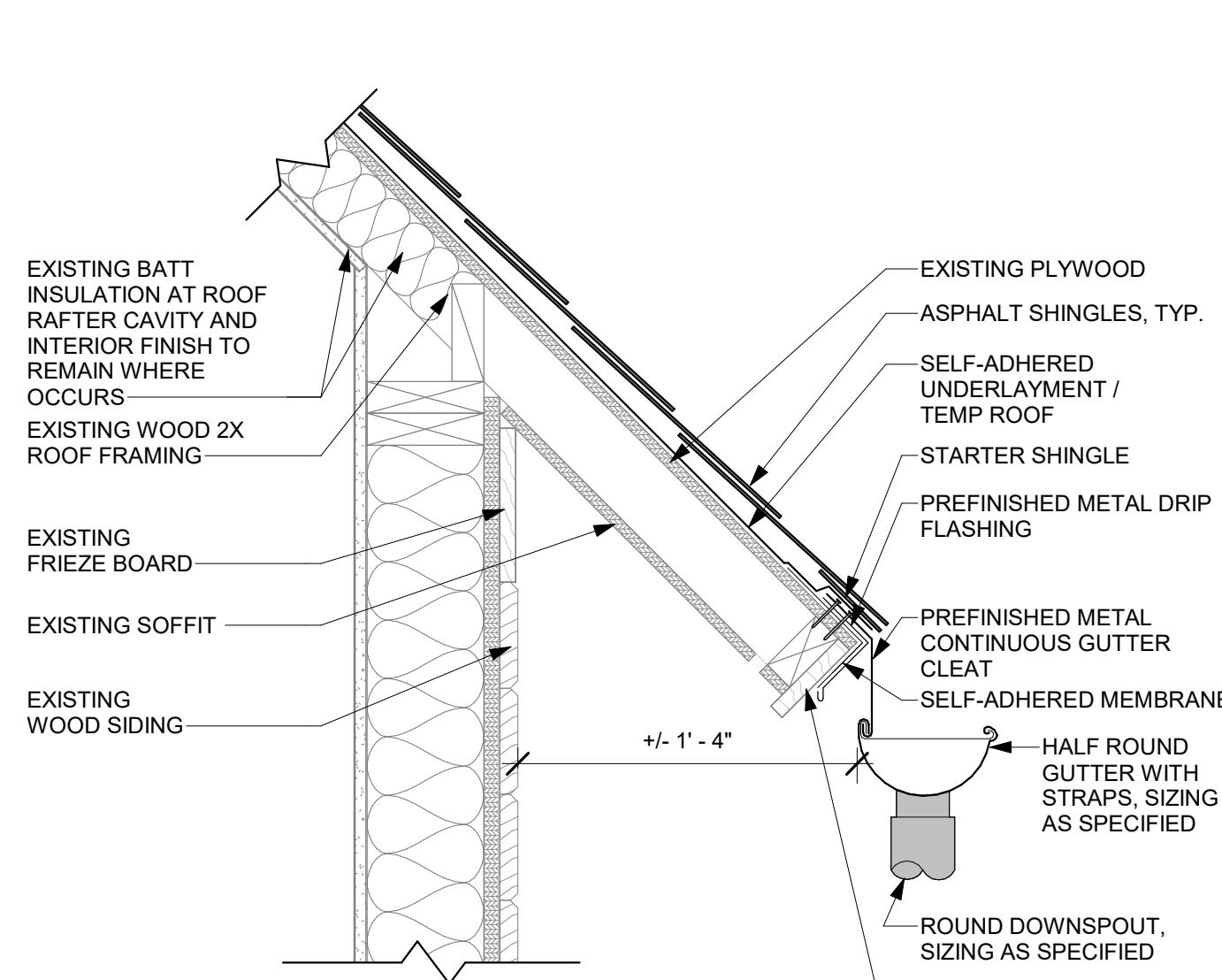
Sheet Contents:
ROOF PLAN

Revisions:
Rev. Date

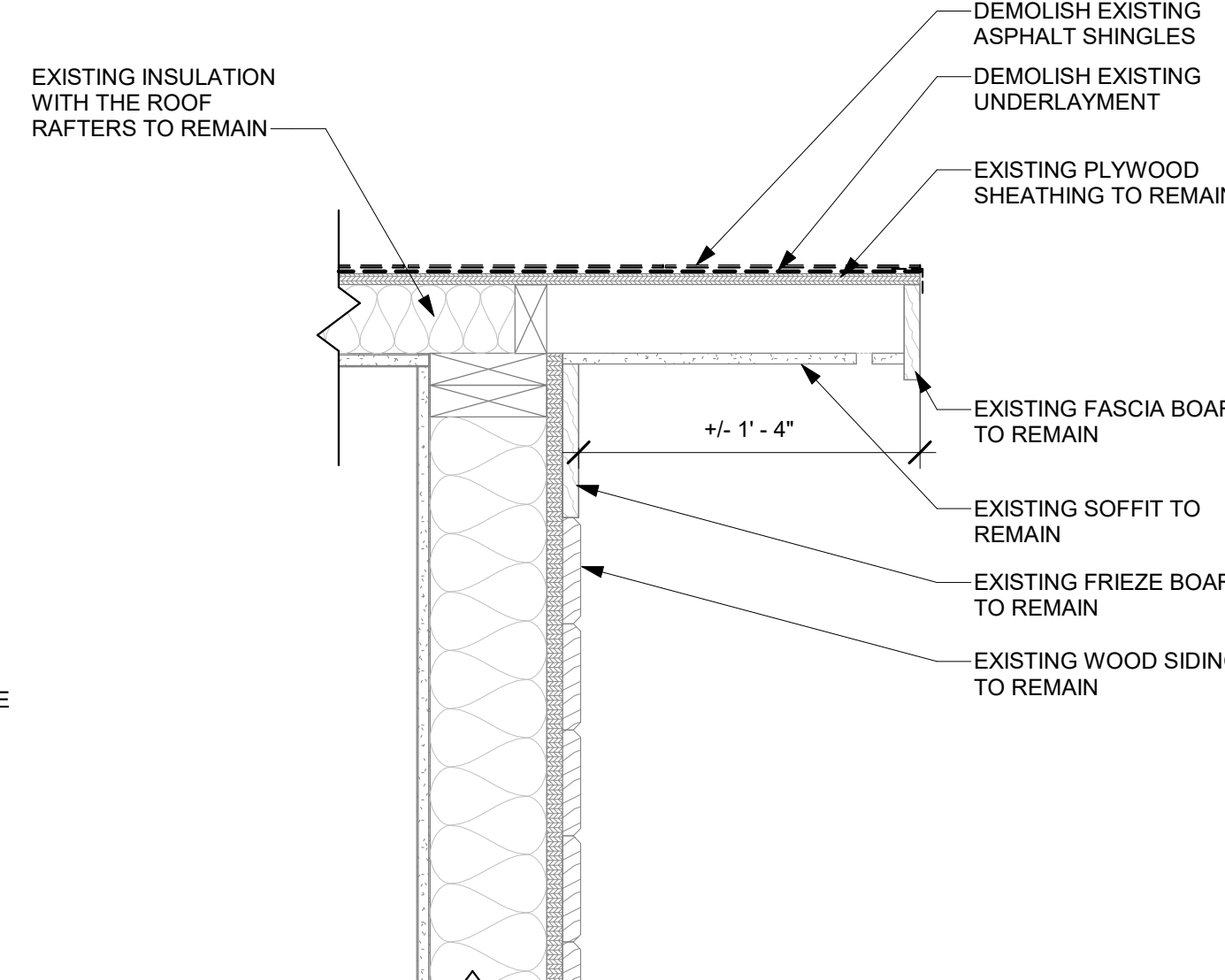
Drawn By: KR, RW
Checked: CB, BP
Date: 10/29/2026
Job No.: 736
Sheet No.:



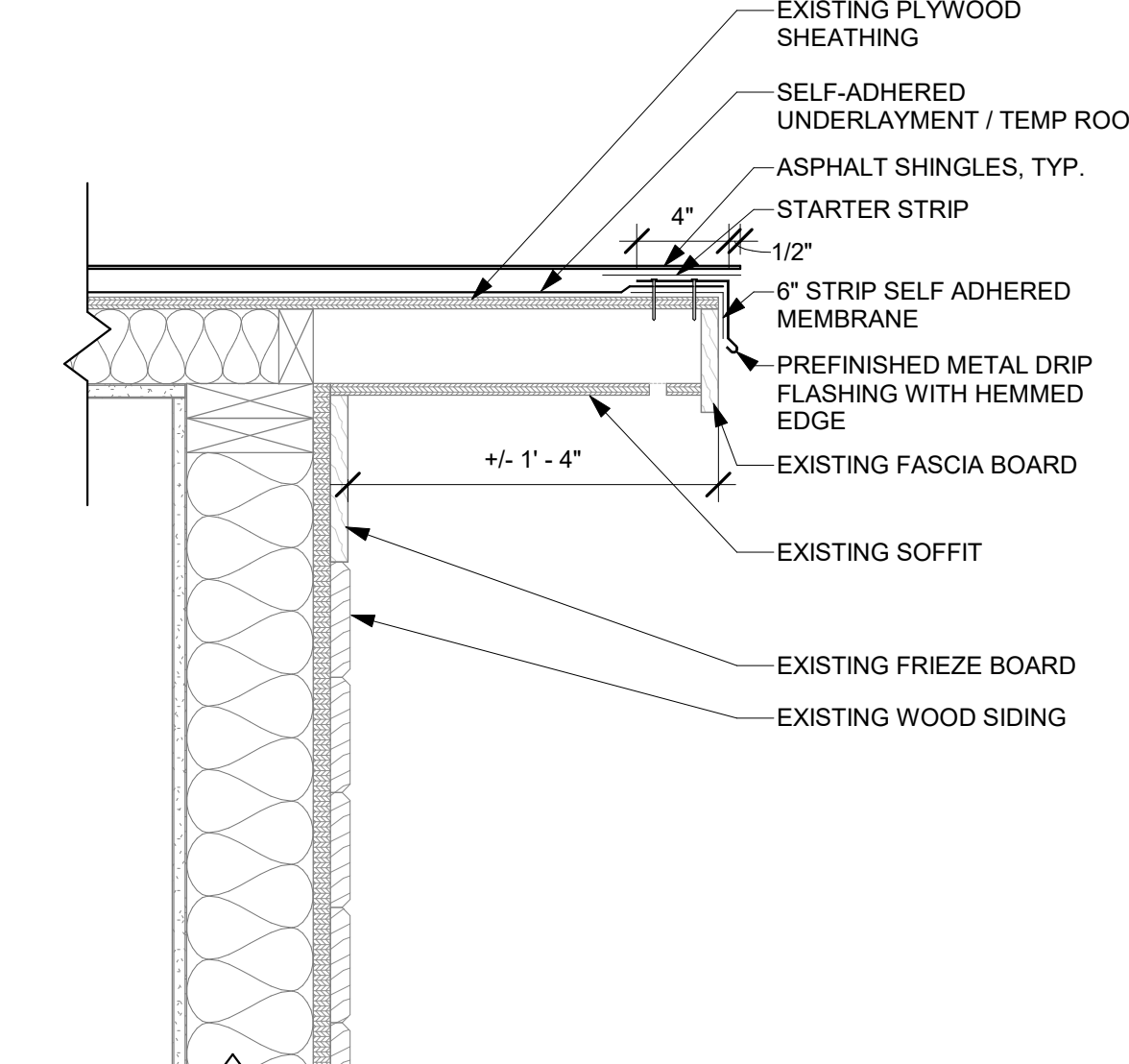
1 TYPICAL STEEP SLOPE EAVE - DEMOLITION
1 1/2" = 1'-0"



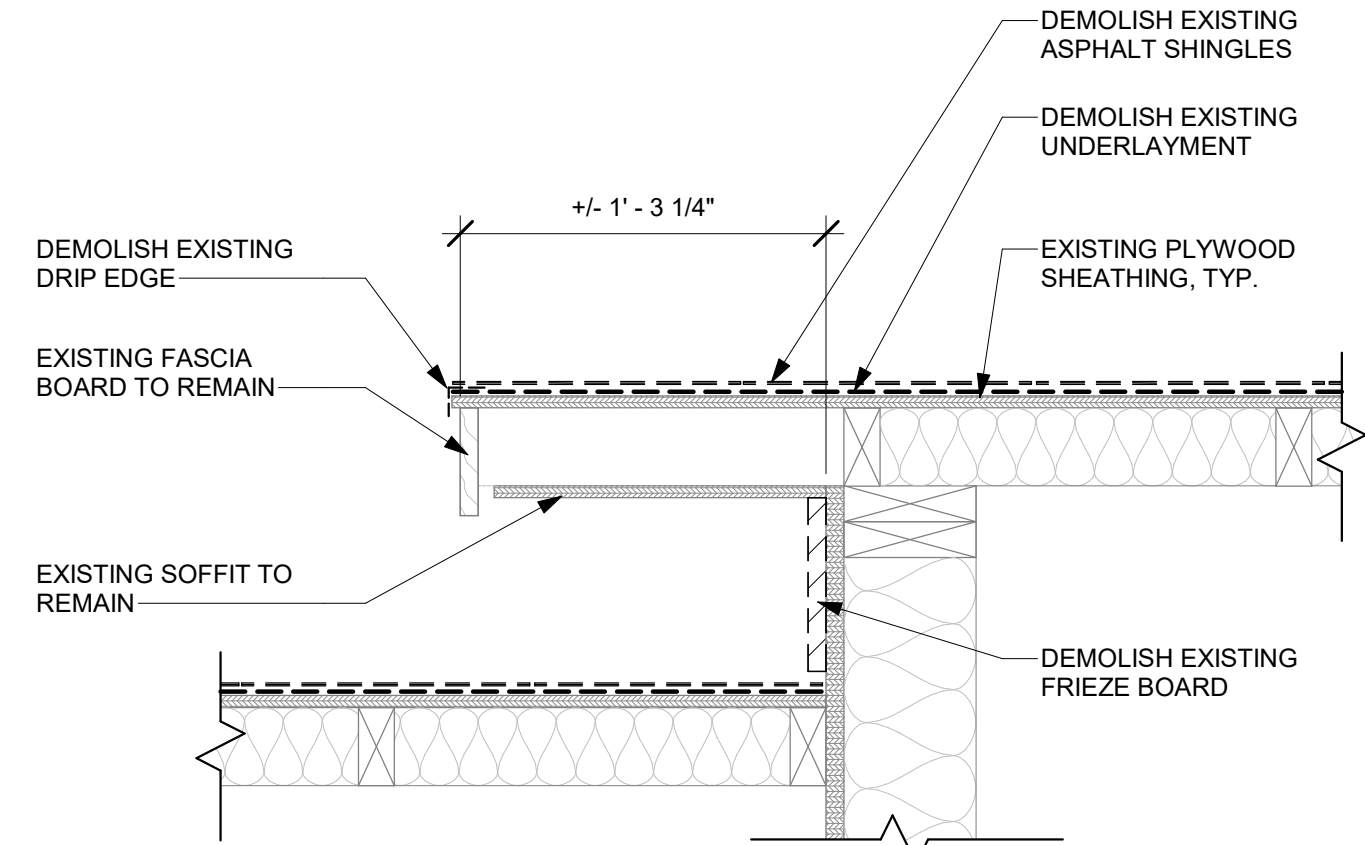
2 TYPICAL STEEP SLOPE EAVE
1 1/2" = 1'-0"



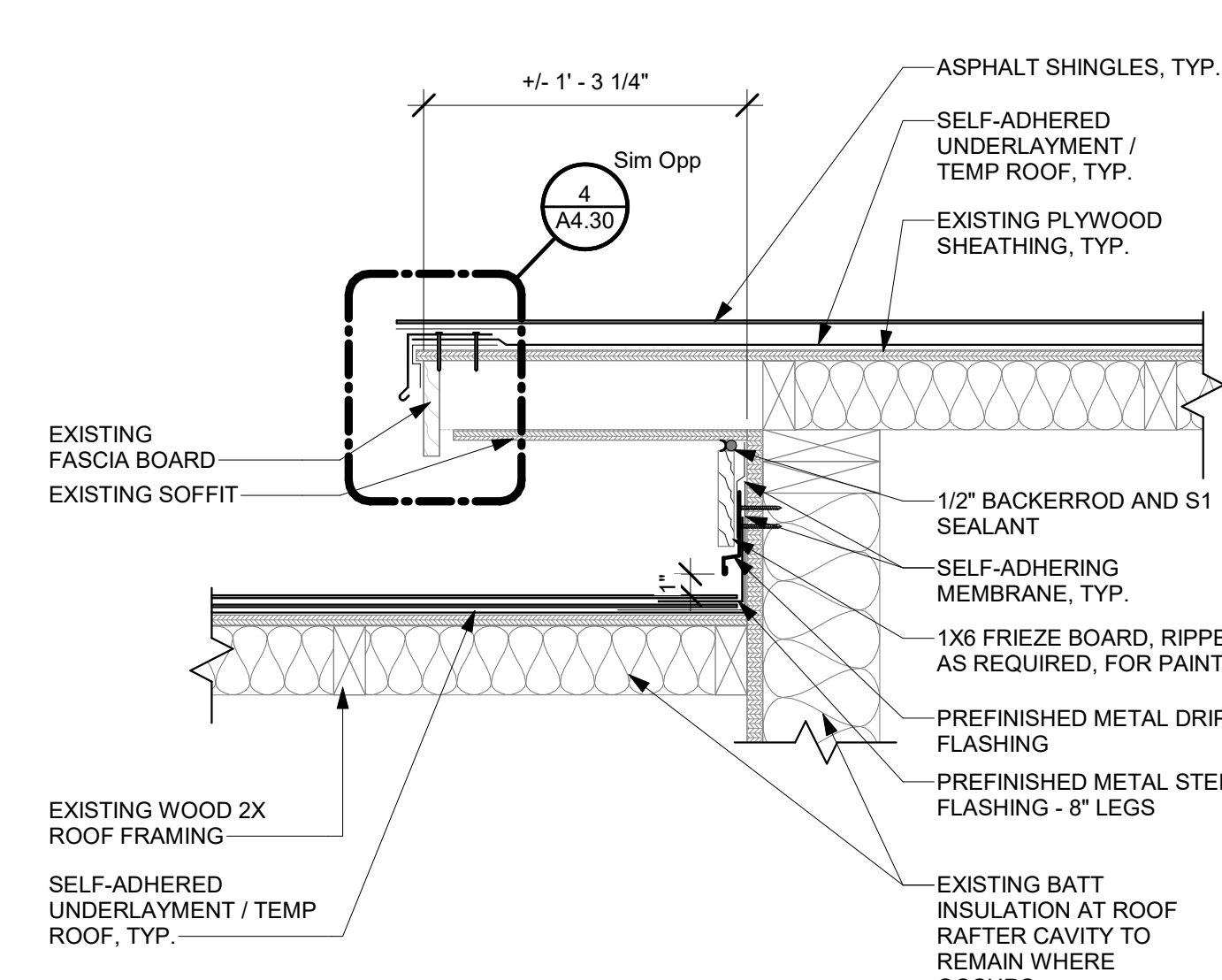
3 TYPICAL STEEP SLOPE RAKE - DEMOLITION
1 1/2" = 1'-0"



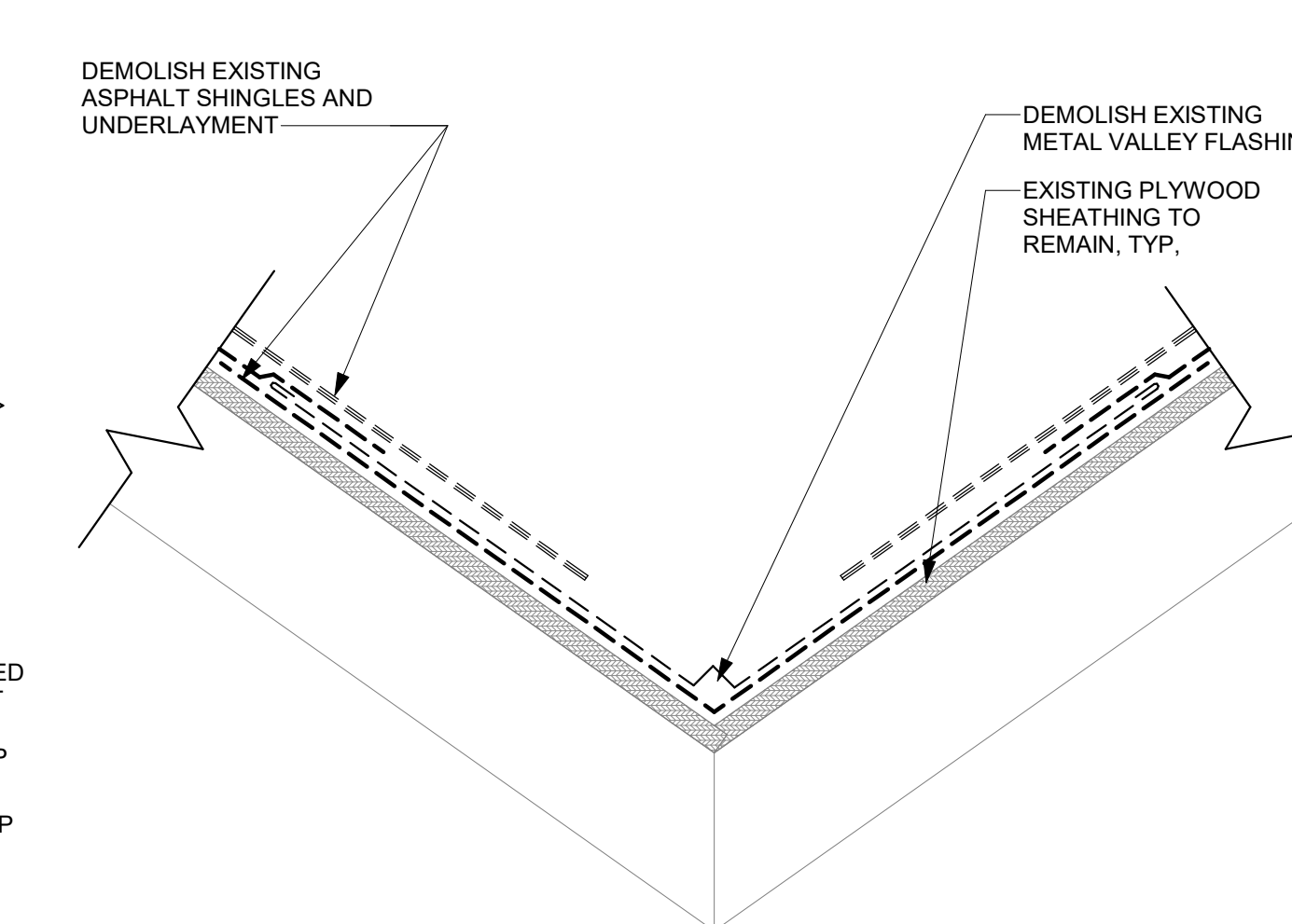
4 TYPICAL STEEP SLOPE RAKE
1 1/2" = 1'-0"



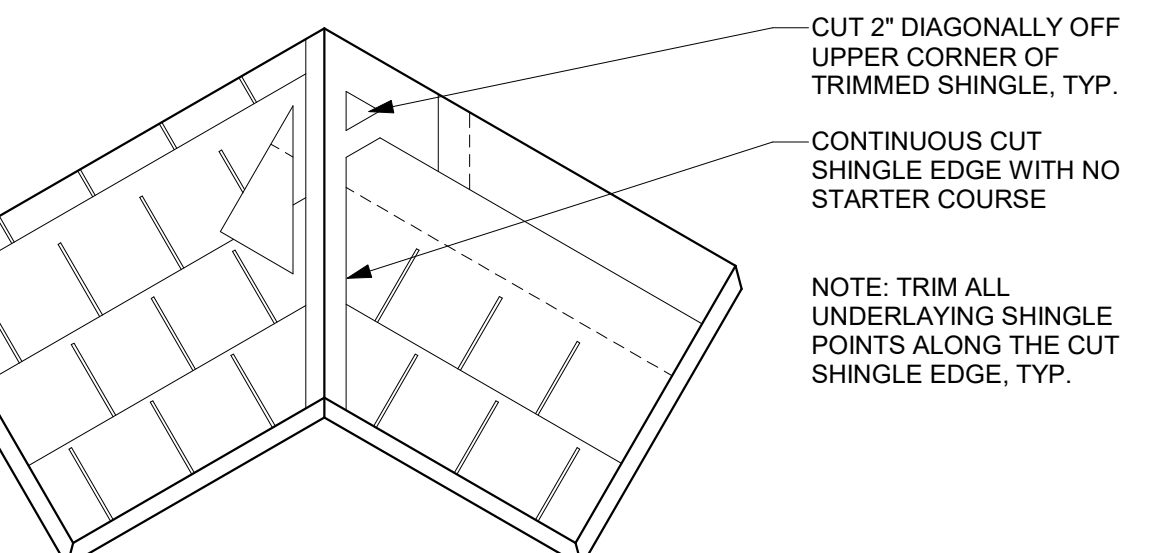
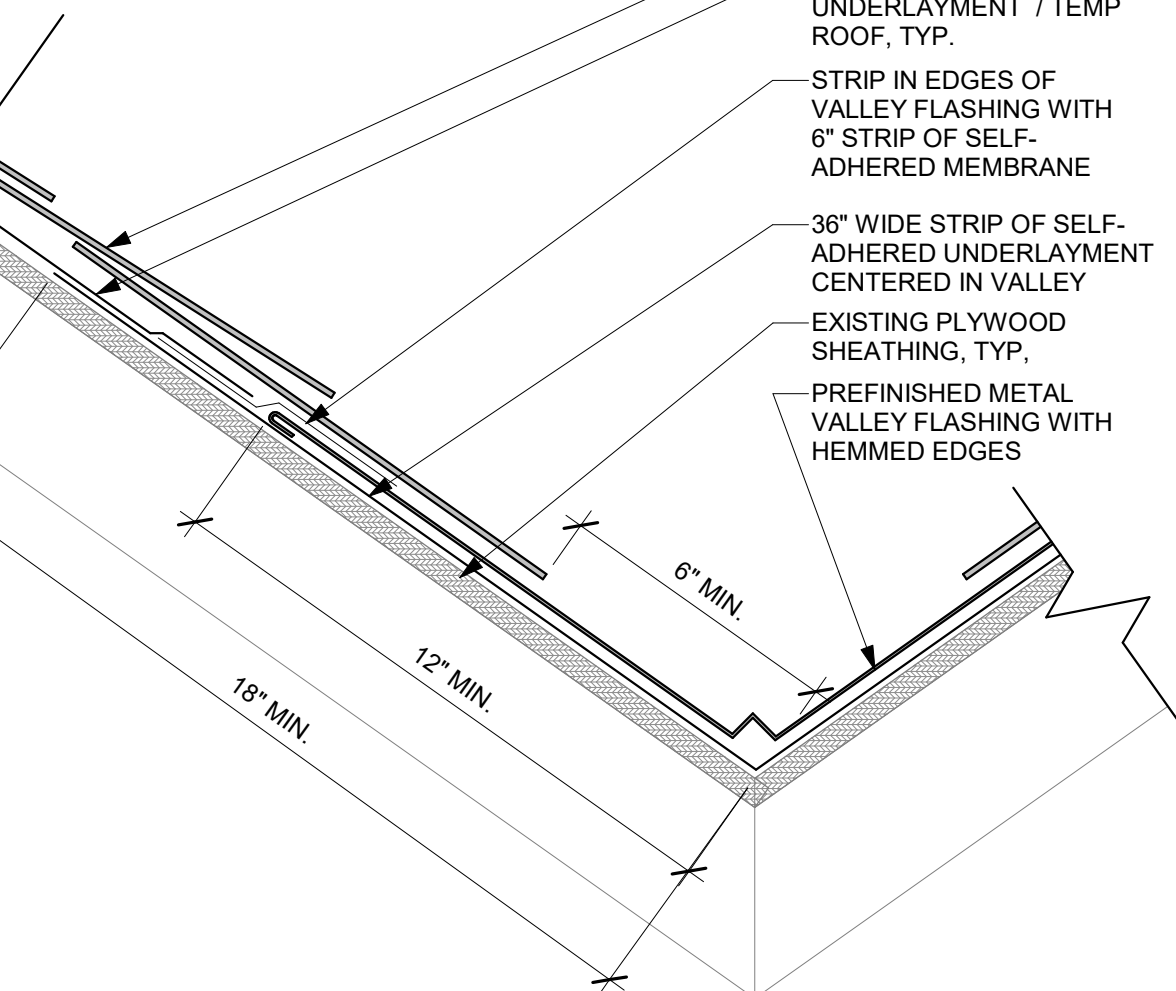
5 TYPICAL STEEP SLOPE - HIGH TO LOW ROOF RAKE - DEMOLITION
1 1/2" = 1'-0"



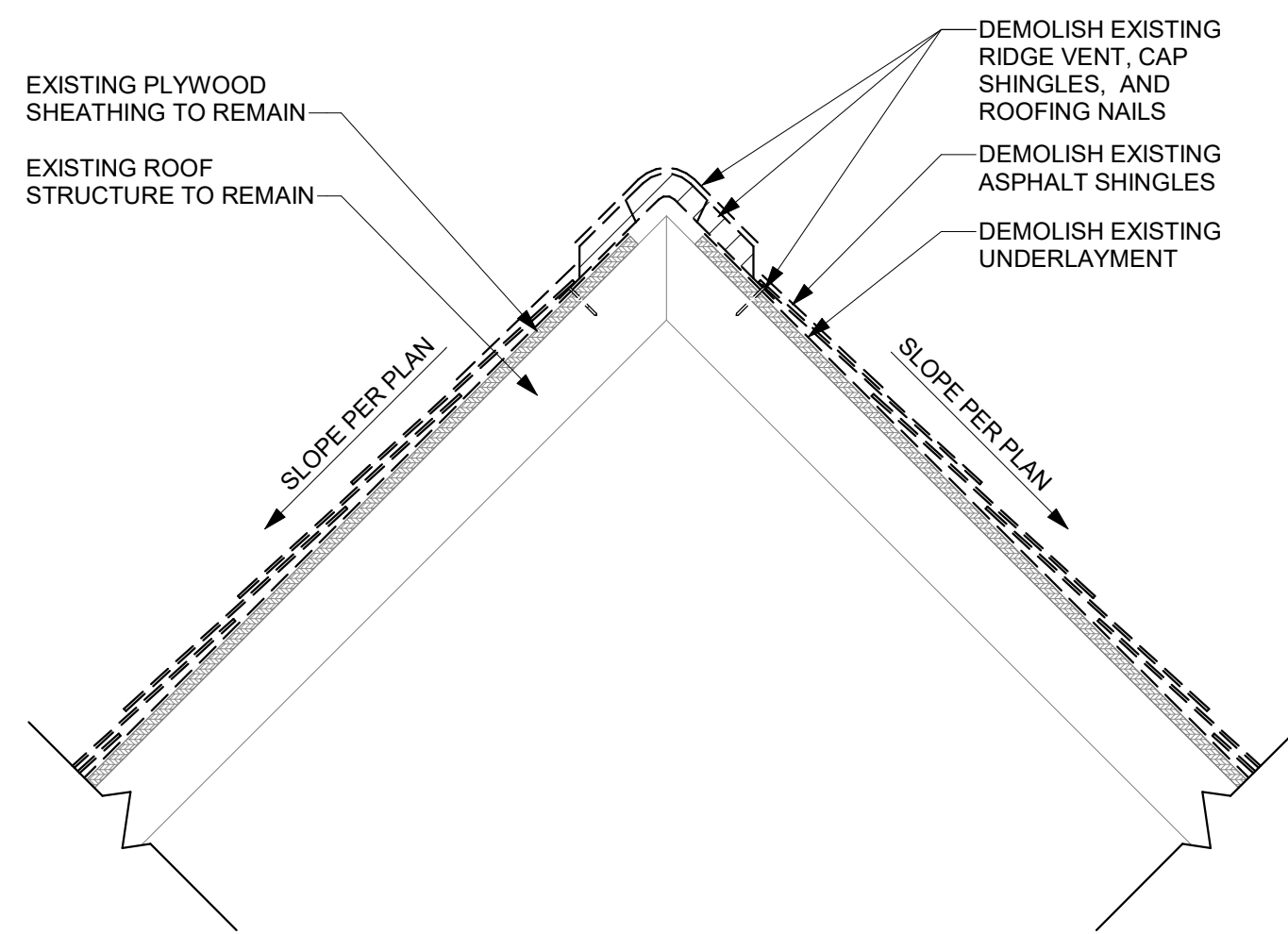
6 TYPICAL STEEP SLOPE - HIGH TO LOW ROOF RAKE
1 1/2" = 1'-0"



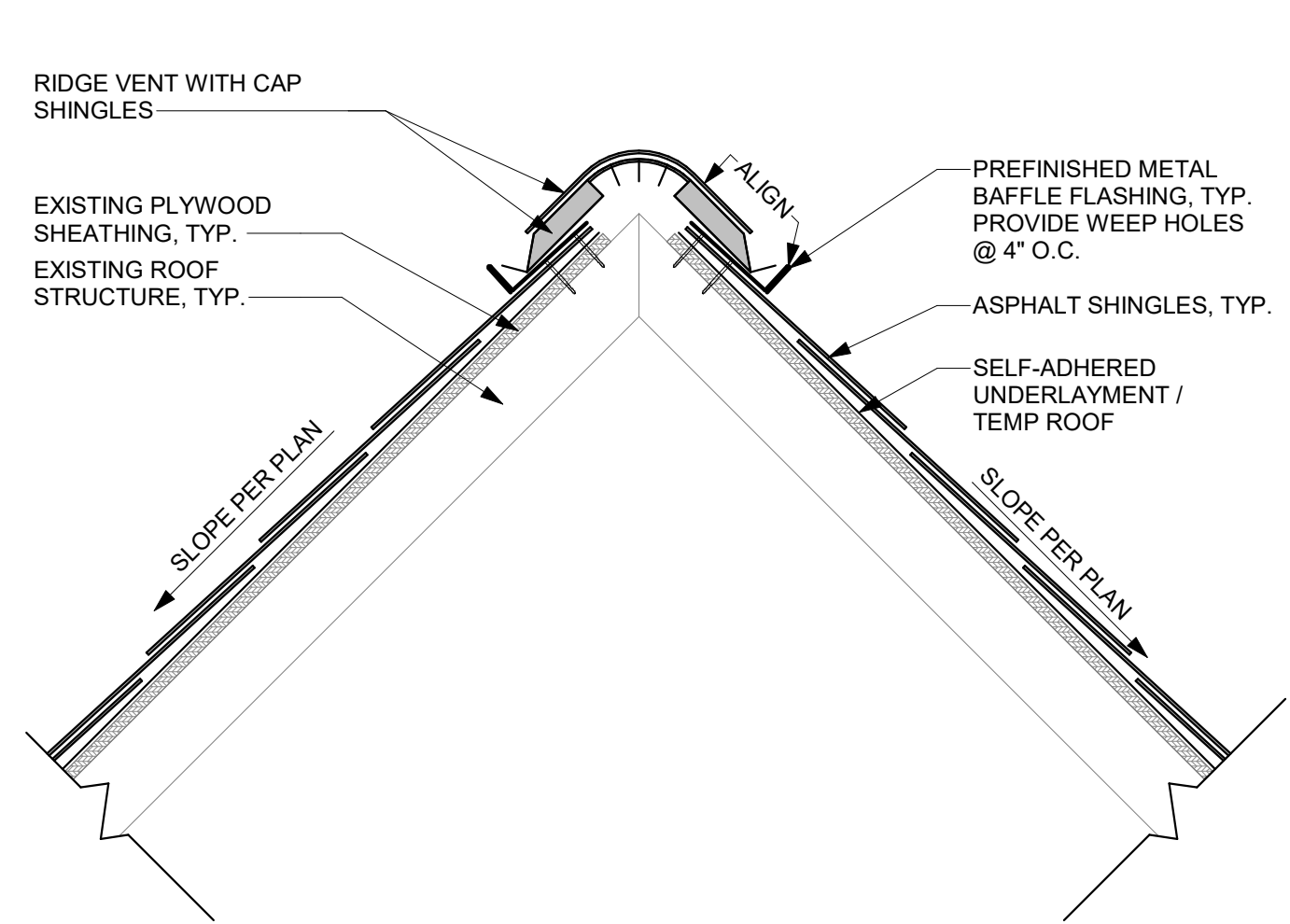
7 TYPICAL STEEP SLOPE VALLEY - DEMOLITION
3" = 1'-0"



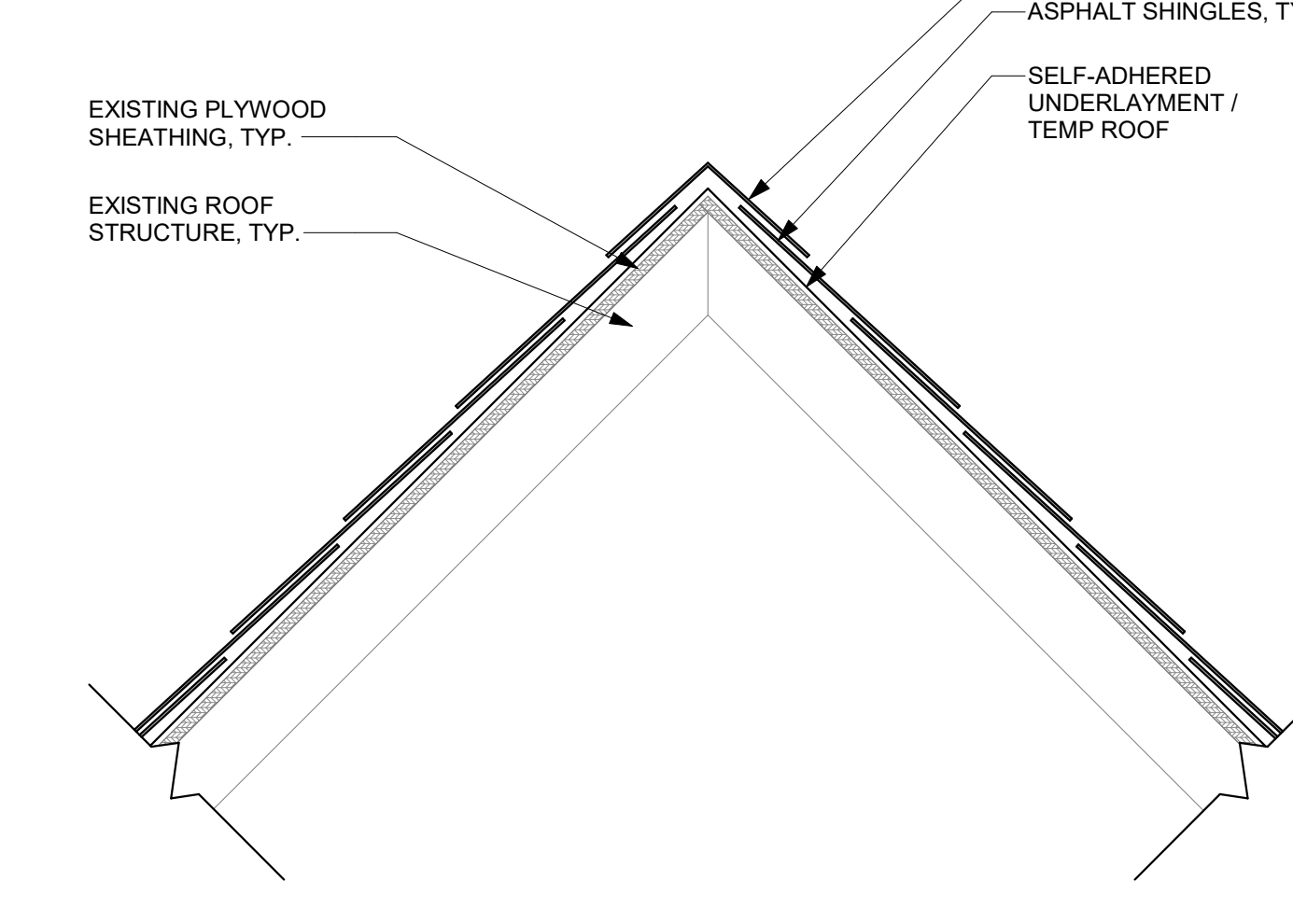
8 TYPICAL STEEP SLOPE VALLEY
3" = 1'-0"



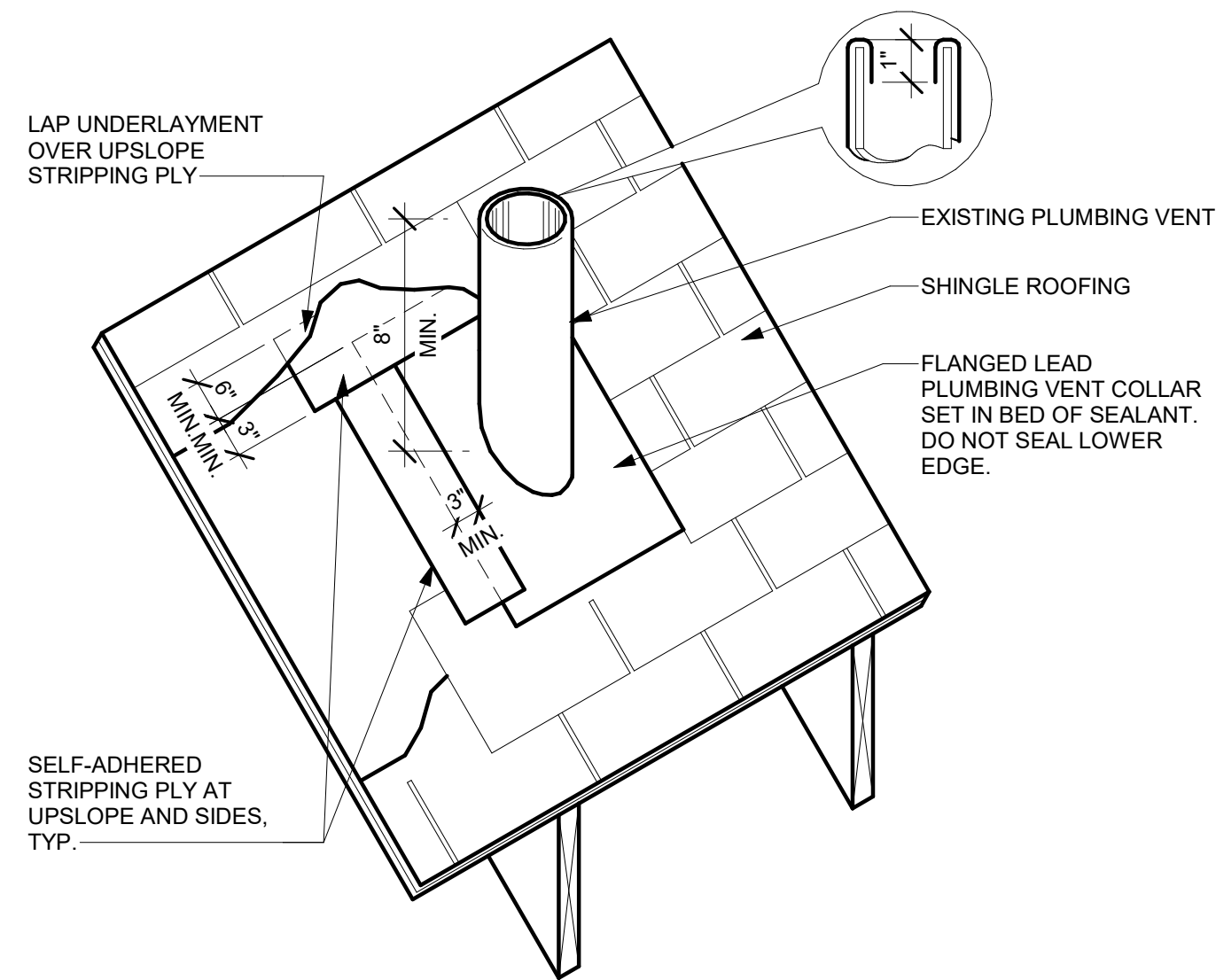
9 TYPICAL STEEP SLOPE VENTILATED RIDGE CAP - DEMOLITION
1 1/2" = 1'-0"



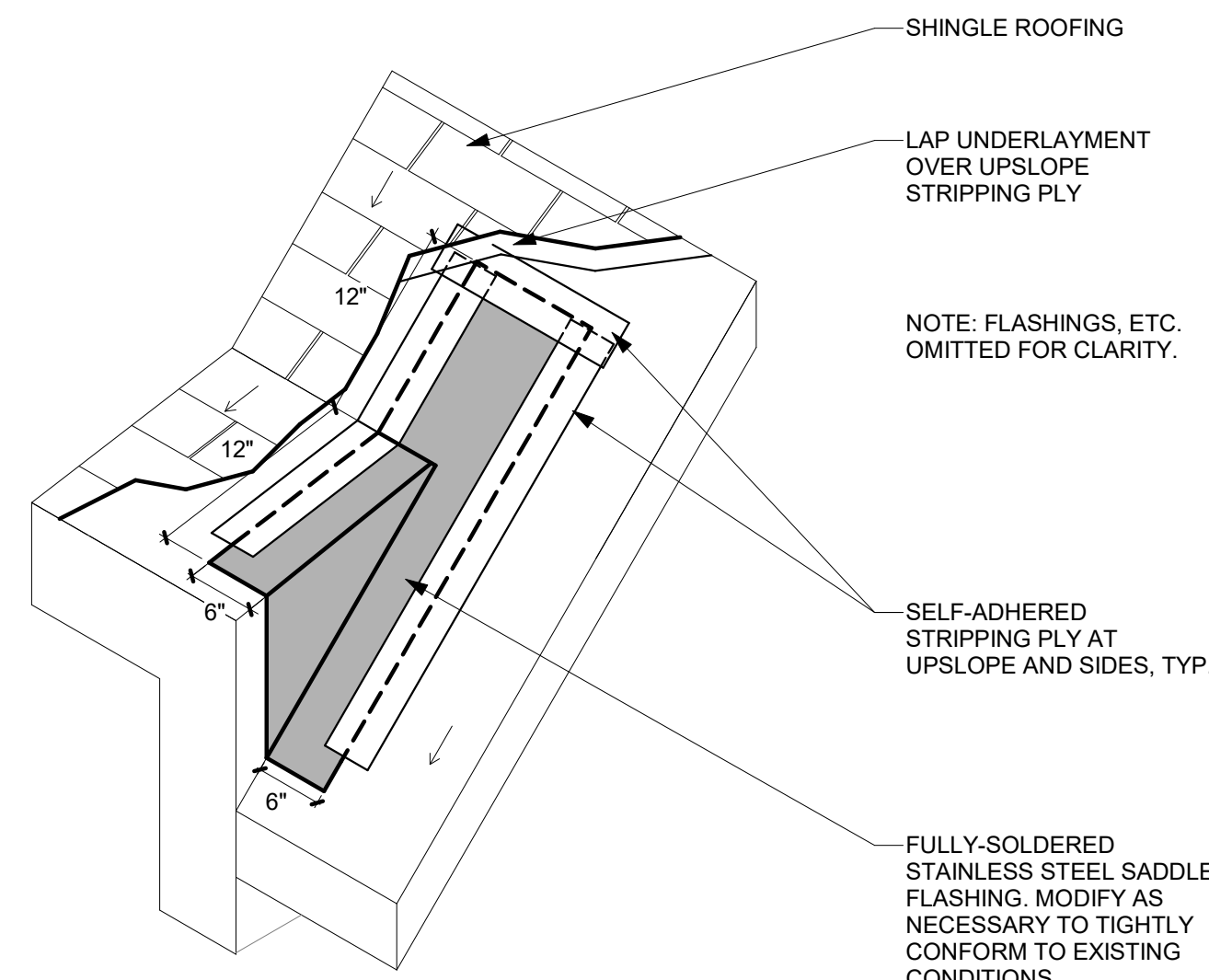
10 TYPICAL STEEP SLOPE VENTILATED RIDGE CAP
1 1/2" = 1'-0"



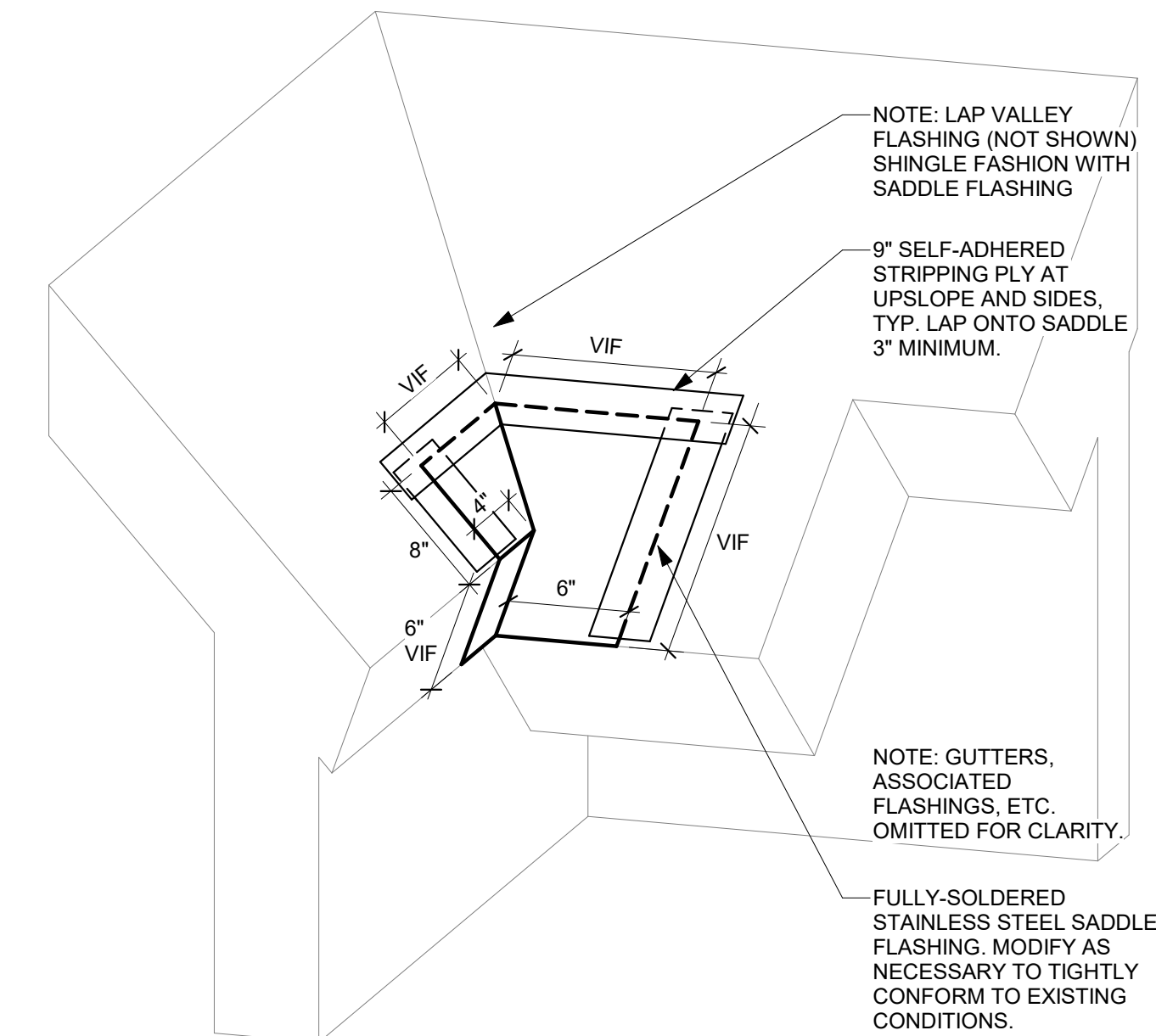
11 TYPICAL STEEP SLOPE RIDGE
1 1/2" = 1'-0"



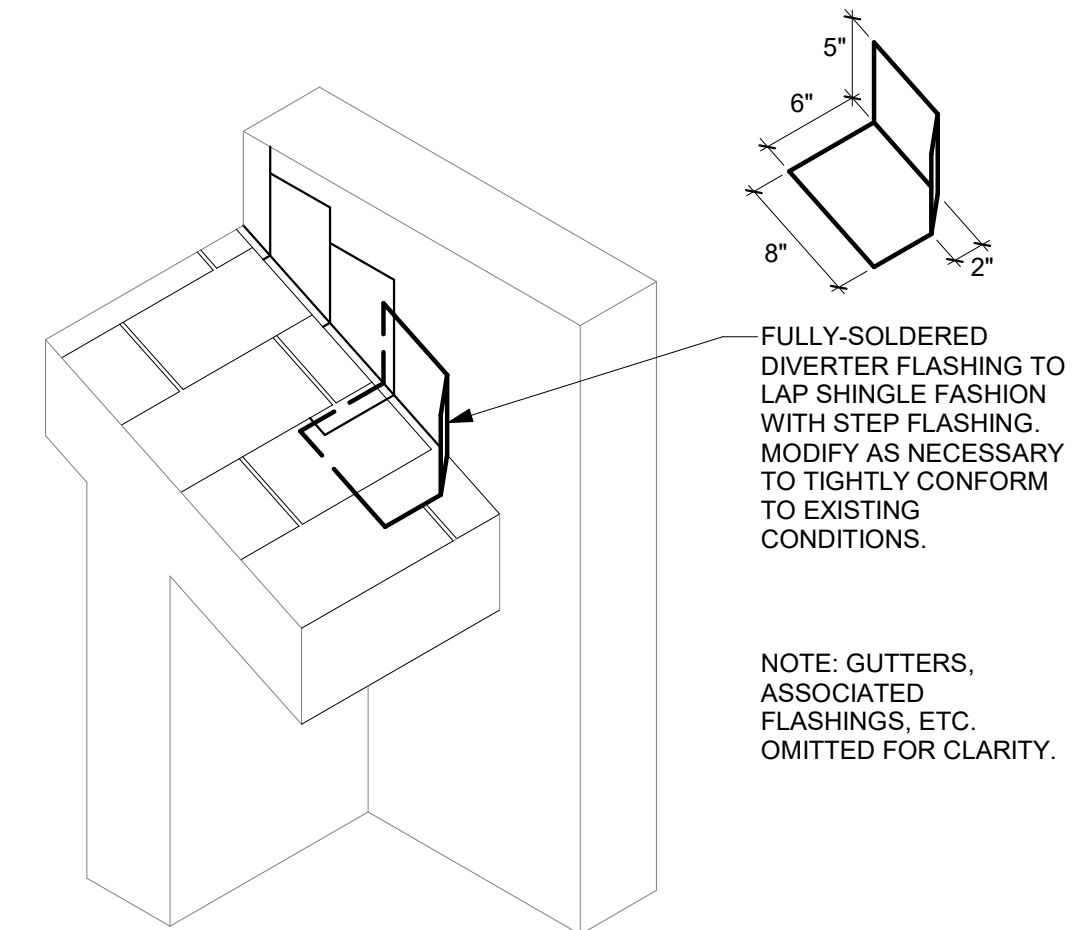
① TYPICAL PLUMBING VENT DETAIL
NTS



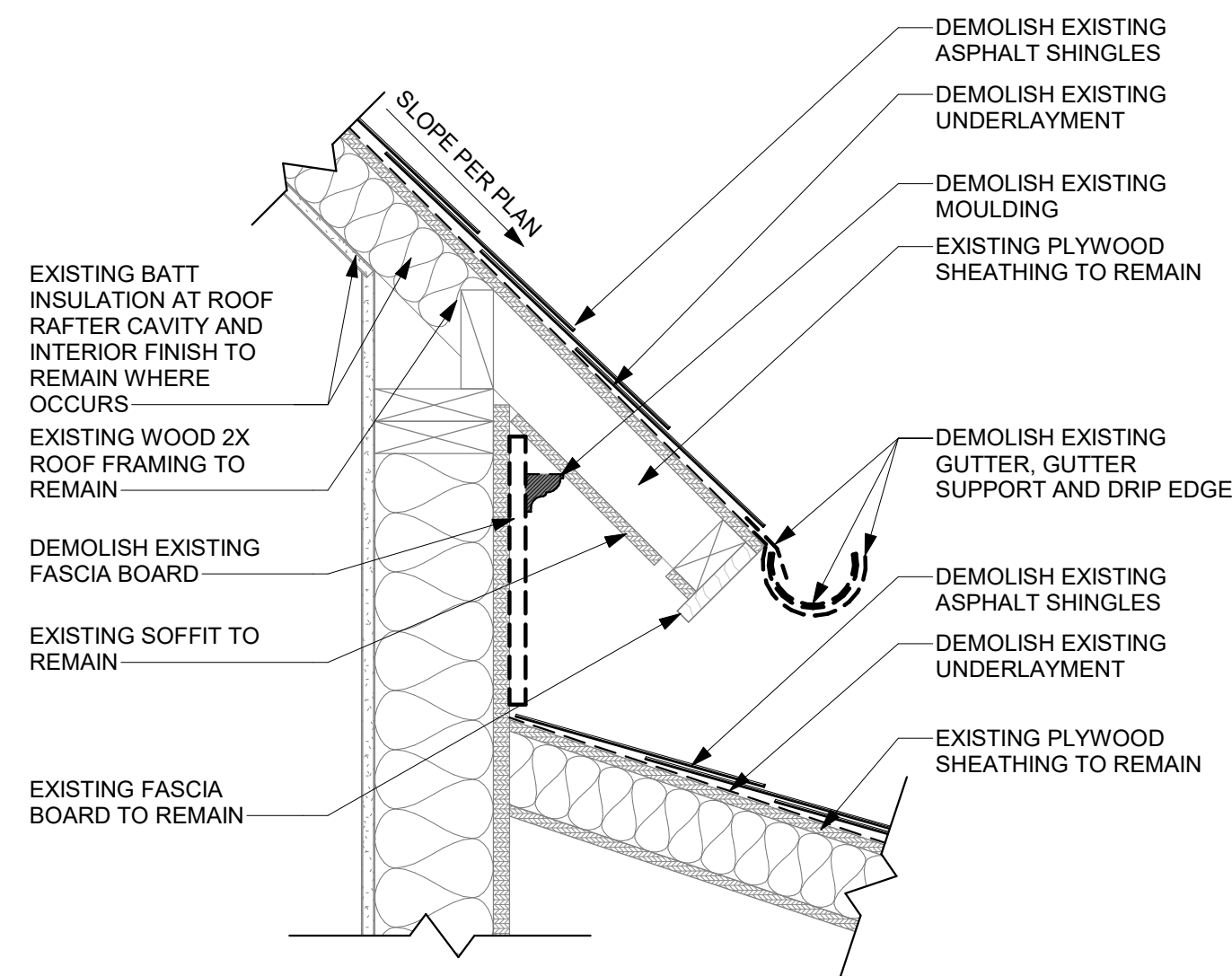
② TYPICAL SADDLE FLASHING AT SLOPE TRANSITION
NTS



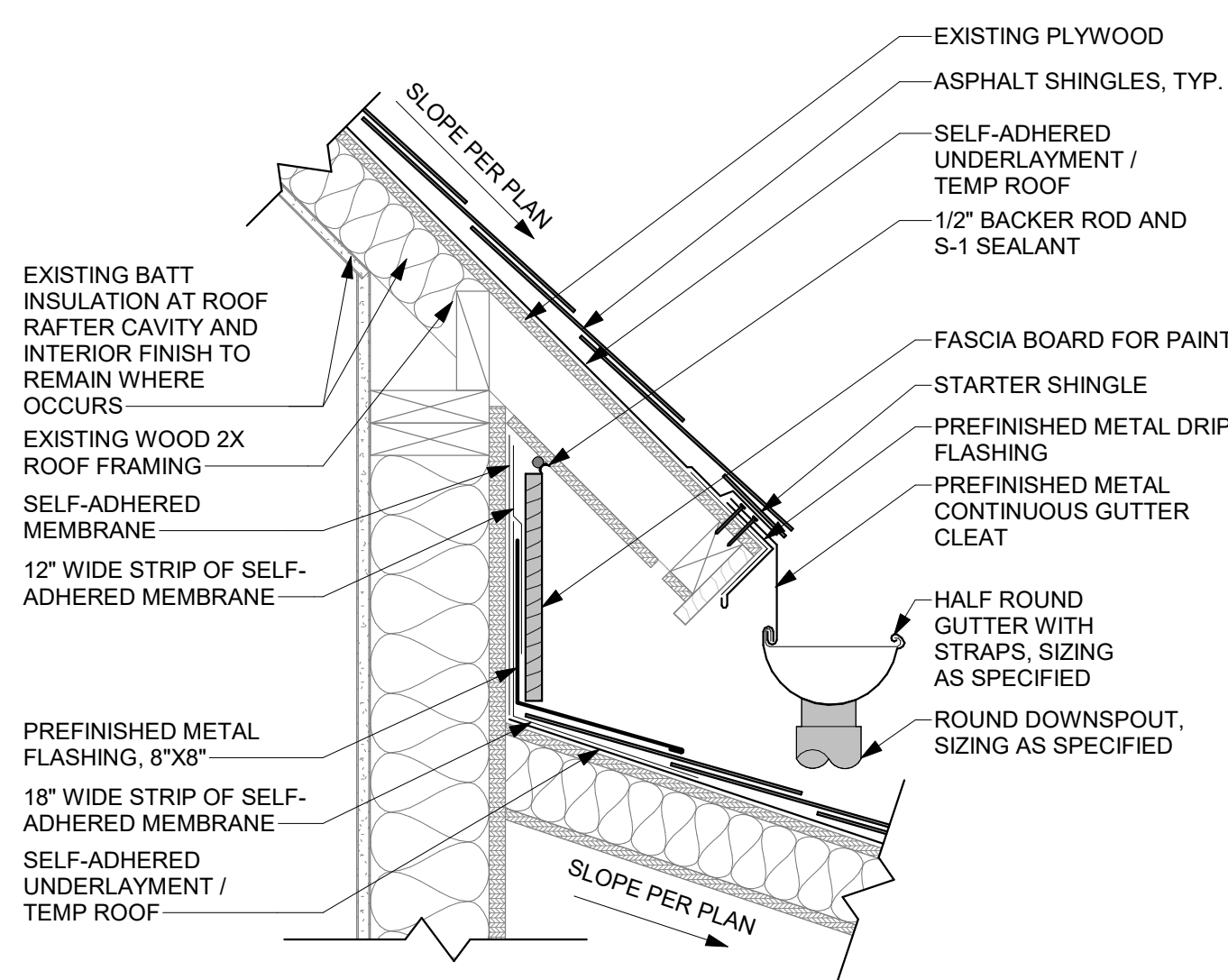
③ STAINLESS STEEL SADDLE FLASHING AT SHINGLE ROOF TRANSITION
NTS



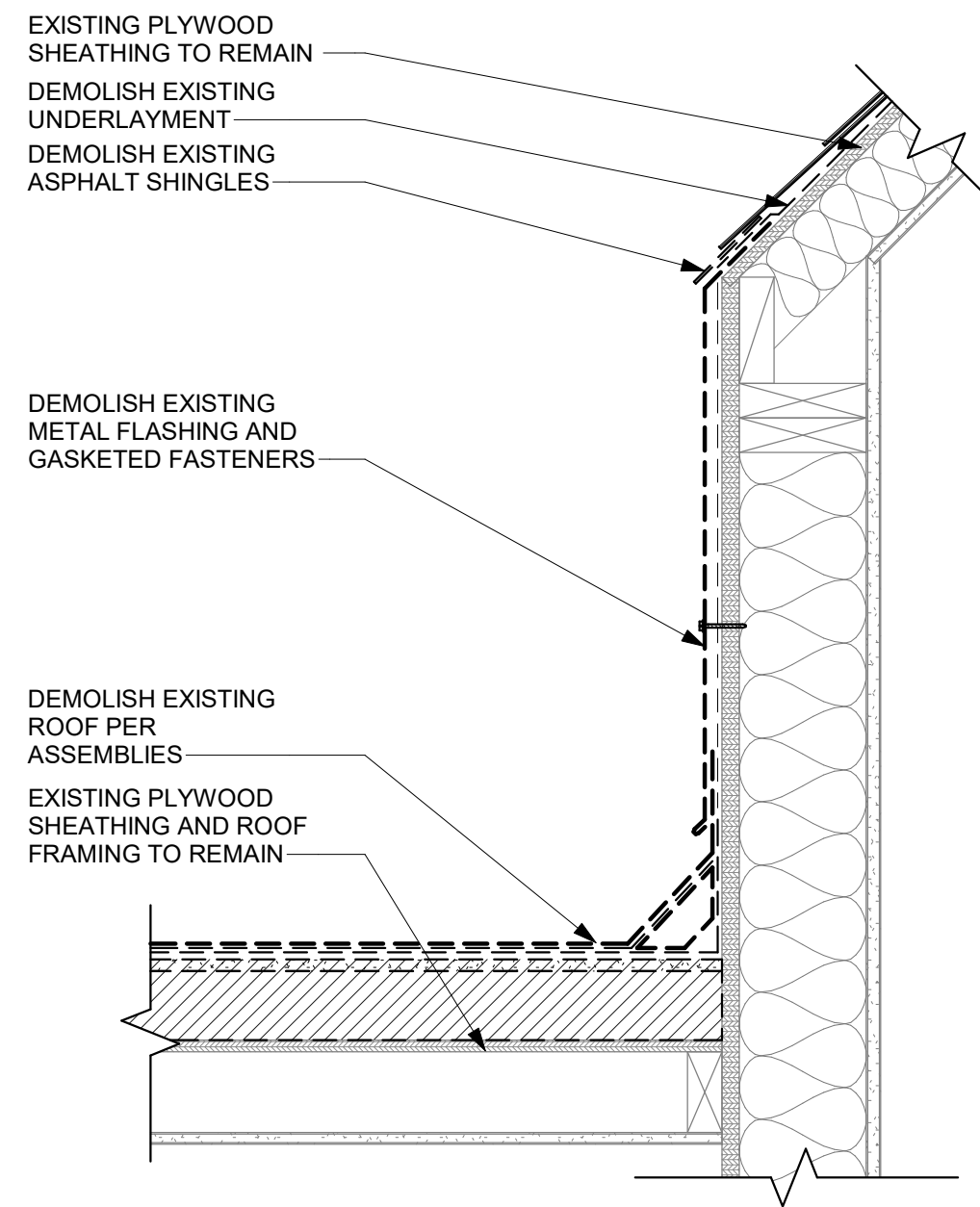
④ DIVERTER FLASHING @ SHINGLES
NTS



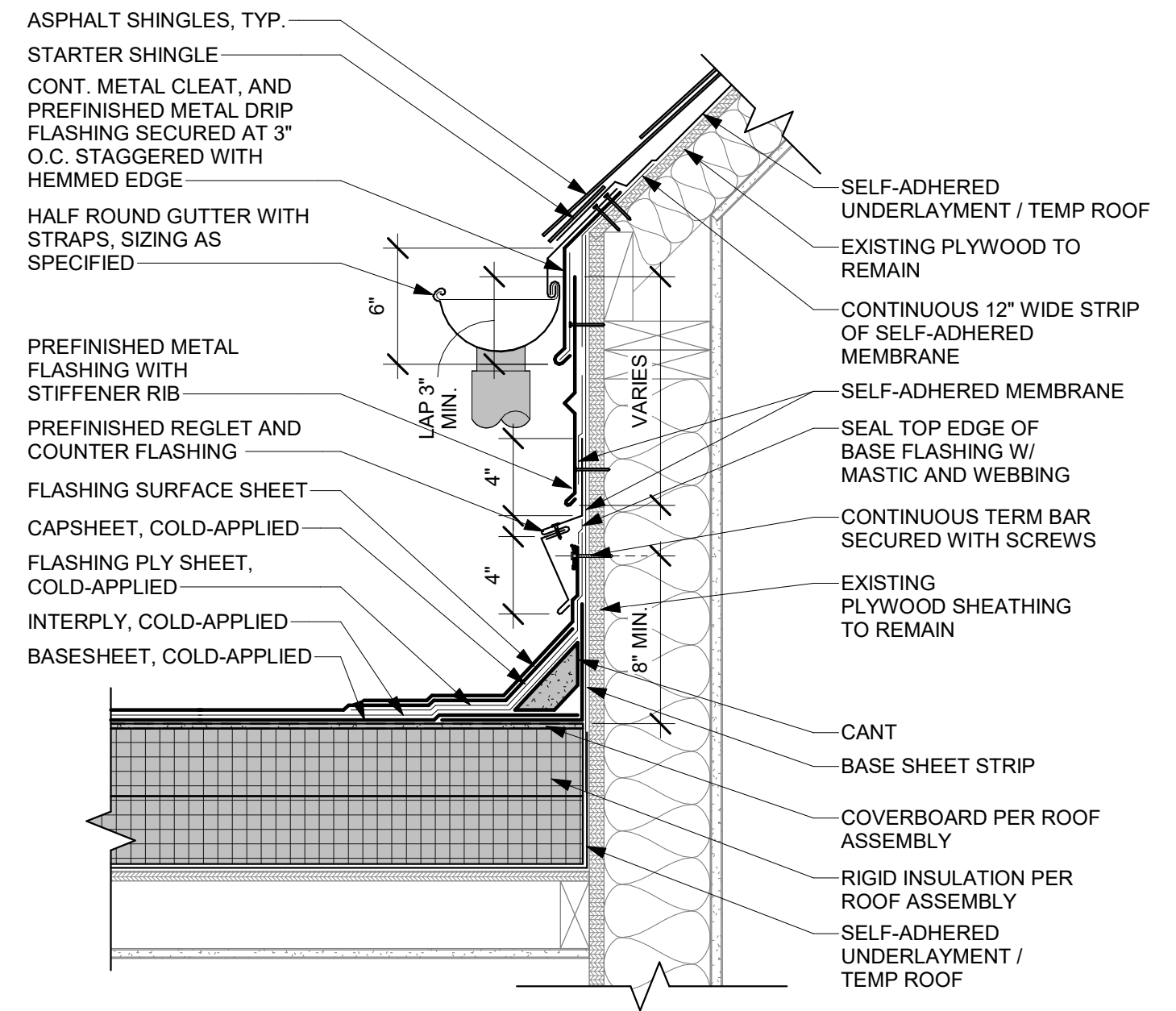
⑤ STEEP SLOPE EAVE TO ROOF 4 - DEMOLITION
1 1/2" = 1'-0"



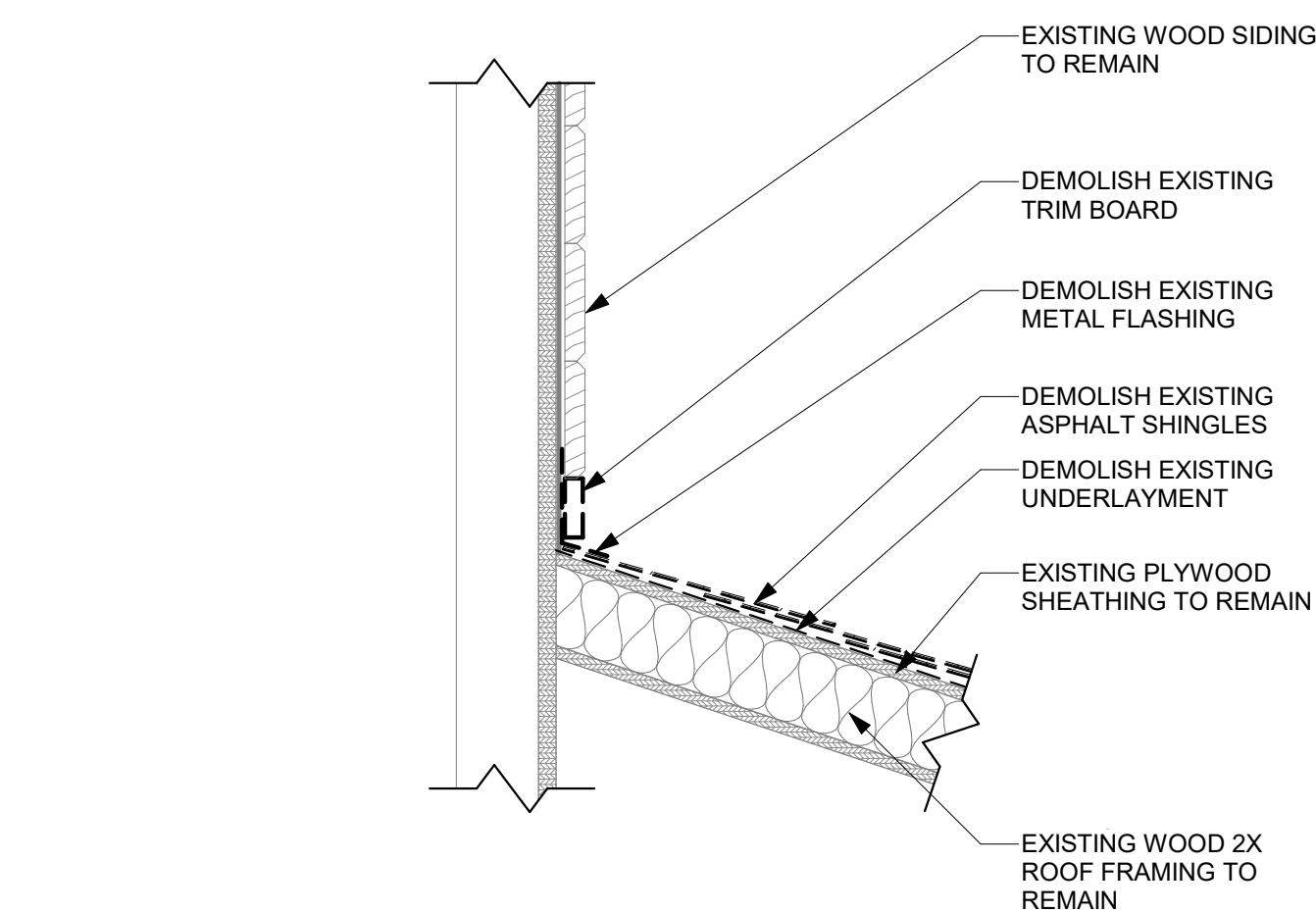
⑥ STEEP SLOPE EAVE TO ROOF 4
1 1/2" = 1'-0"



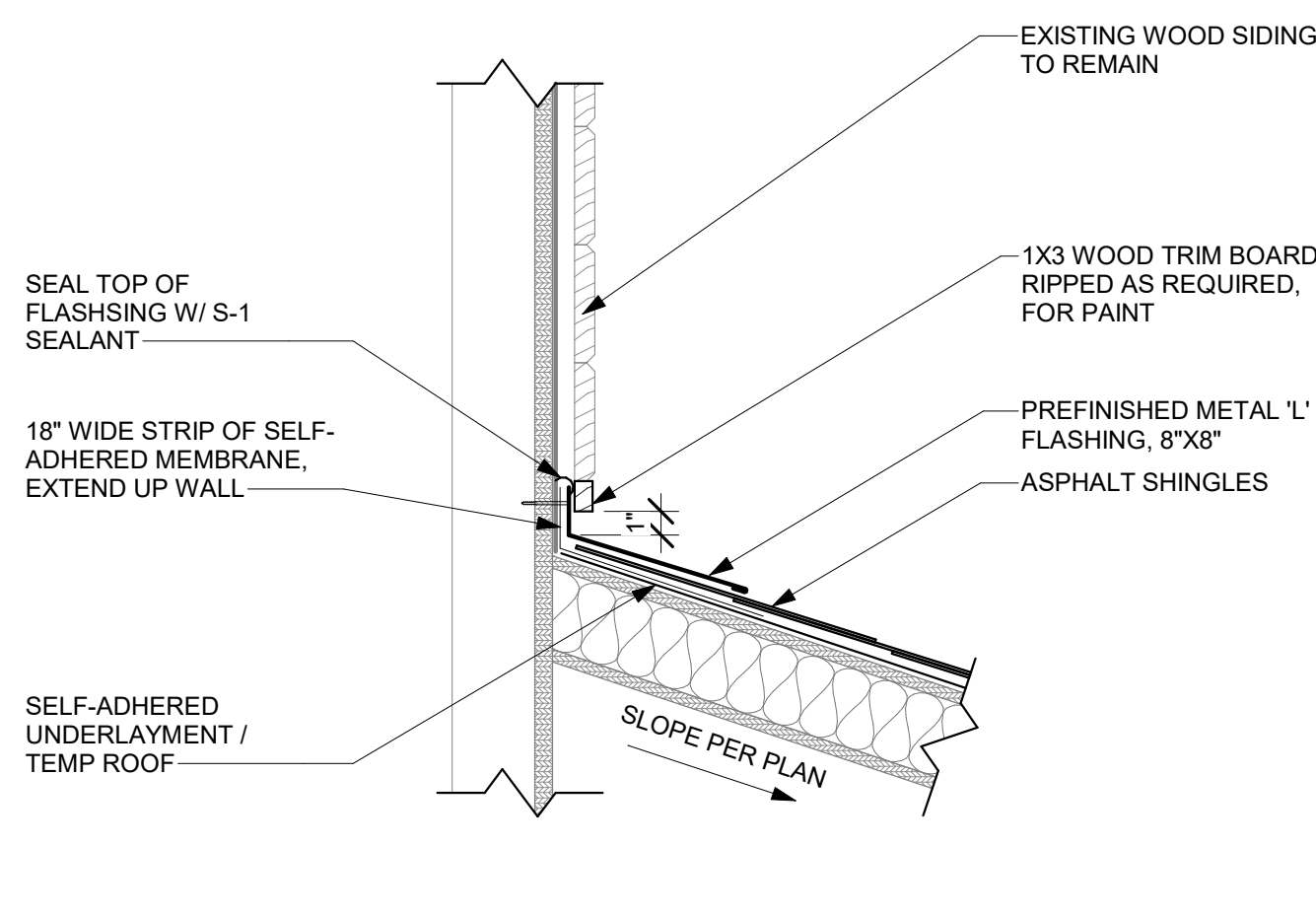
⑦ STEEP SLOPE TO LOW SLOPE - ROOF 9 TO 8 - DEMOLITION
1 1/2" = 1'-0"



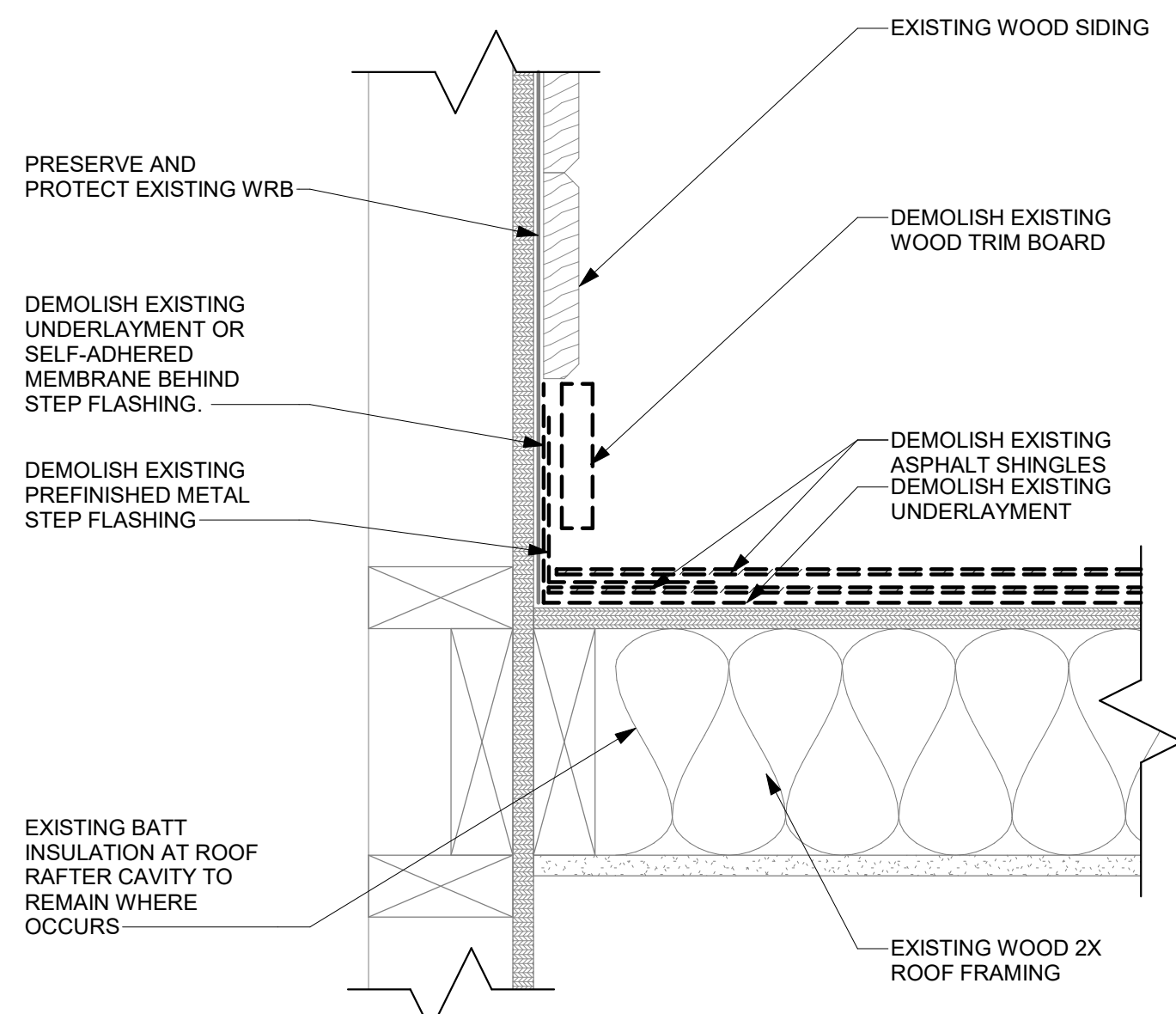
⑧ STEEP SLOPE TO LOW SLOPE - ROOF 9 TO 8
1 1/2" = 1'-0"



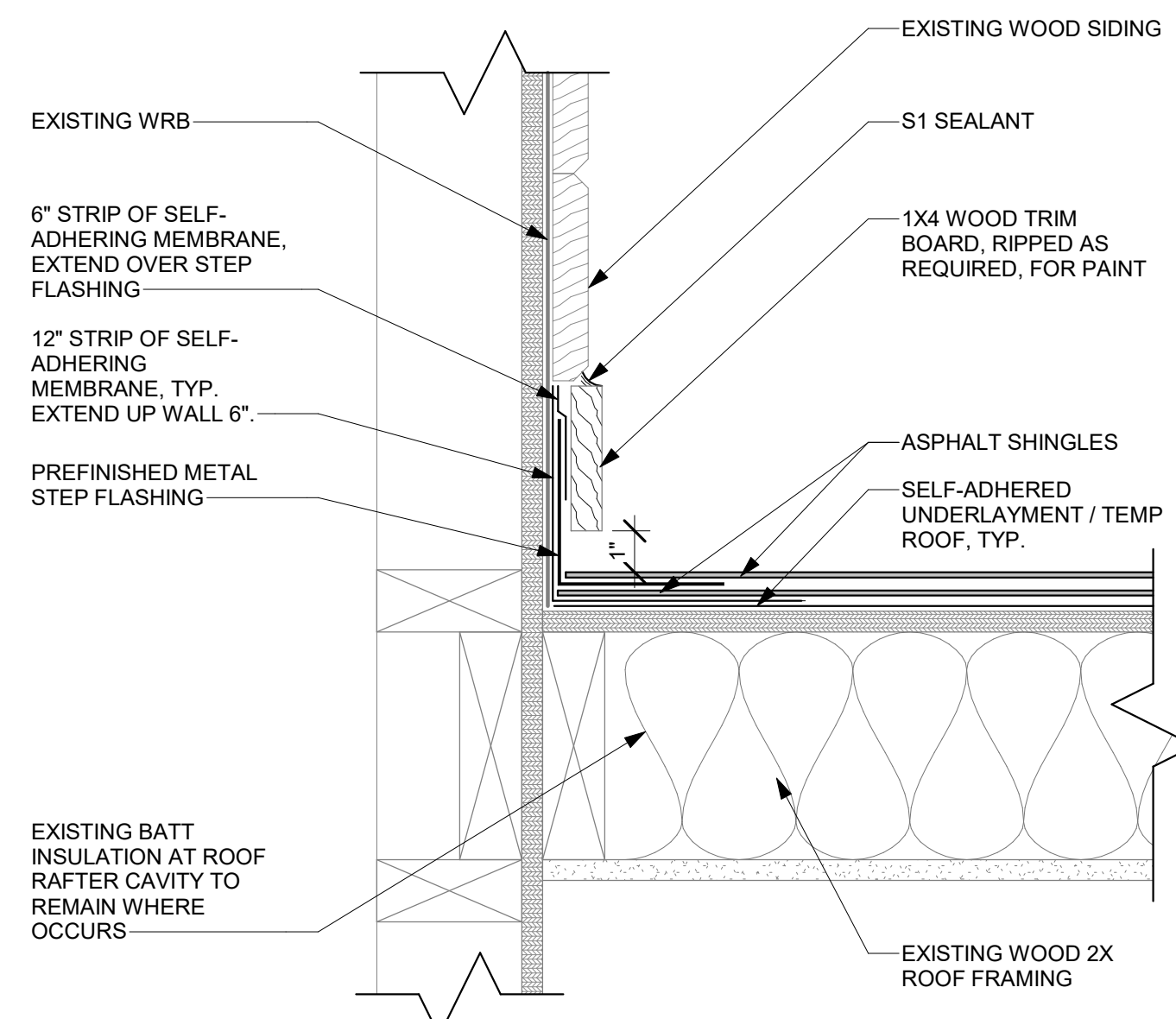
⑨ STEEP SLOPE ROOF TO WALL @ CUPOLA - DEMOLITION
1 1/2" = 1'-0"



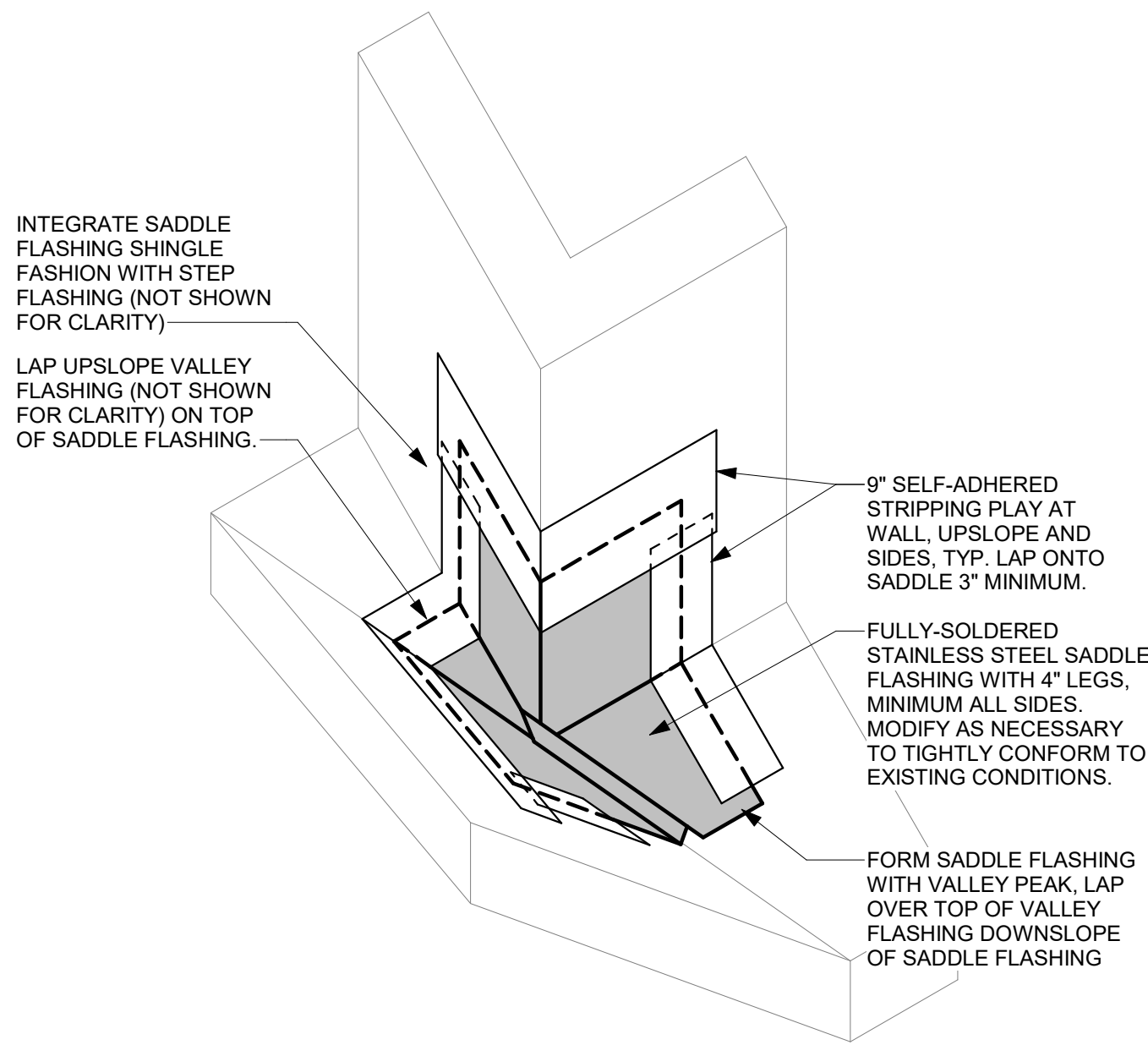
⑩ STEEP SLOPE ROOF TO WALL @ CUPOLA
1 1/2" = 1'-0"



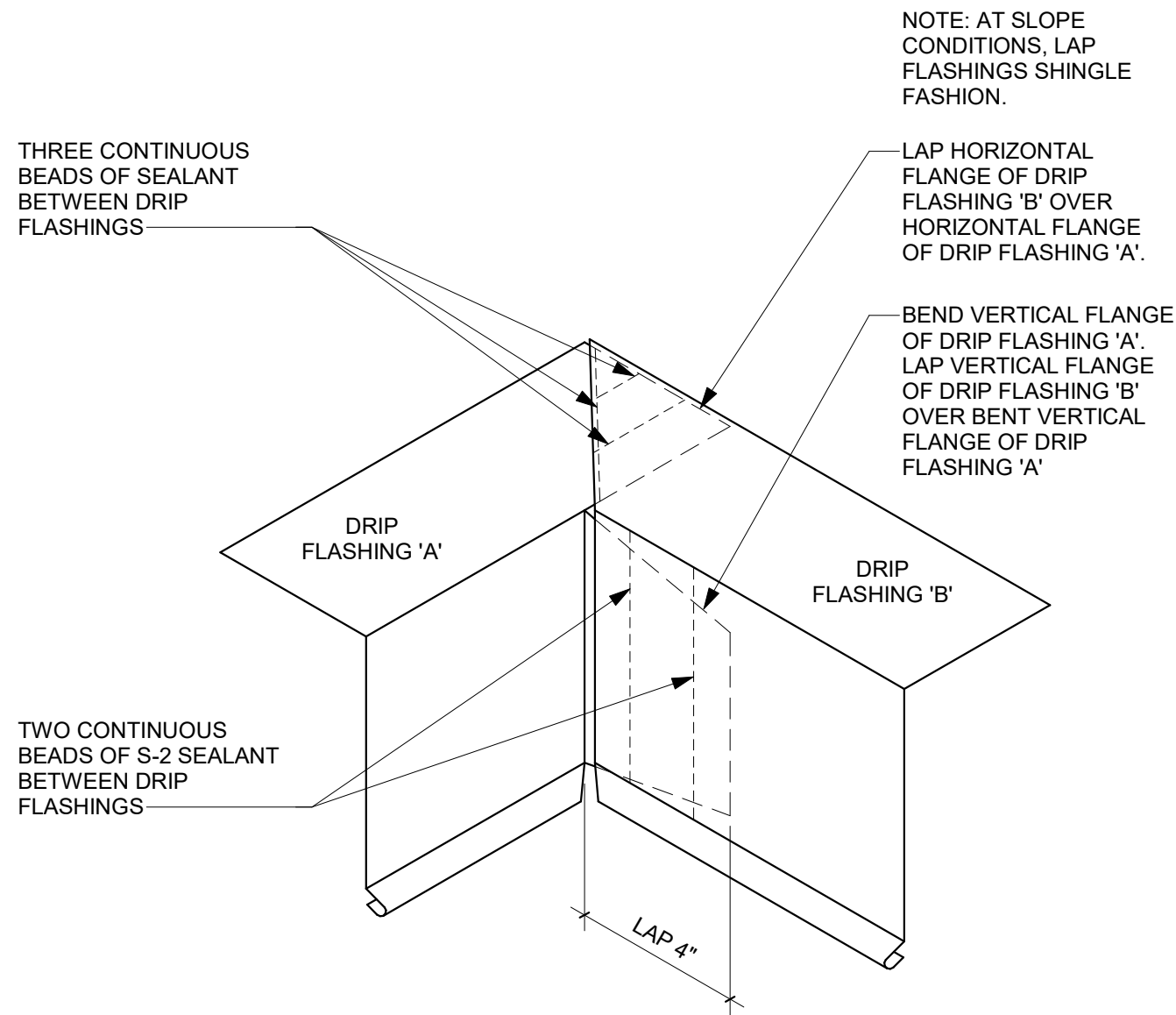
⑪ ROOF TO WALL @ CUPOLA - DEMOLITION
3" = 1'-0"



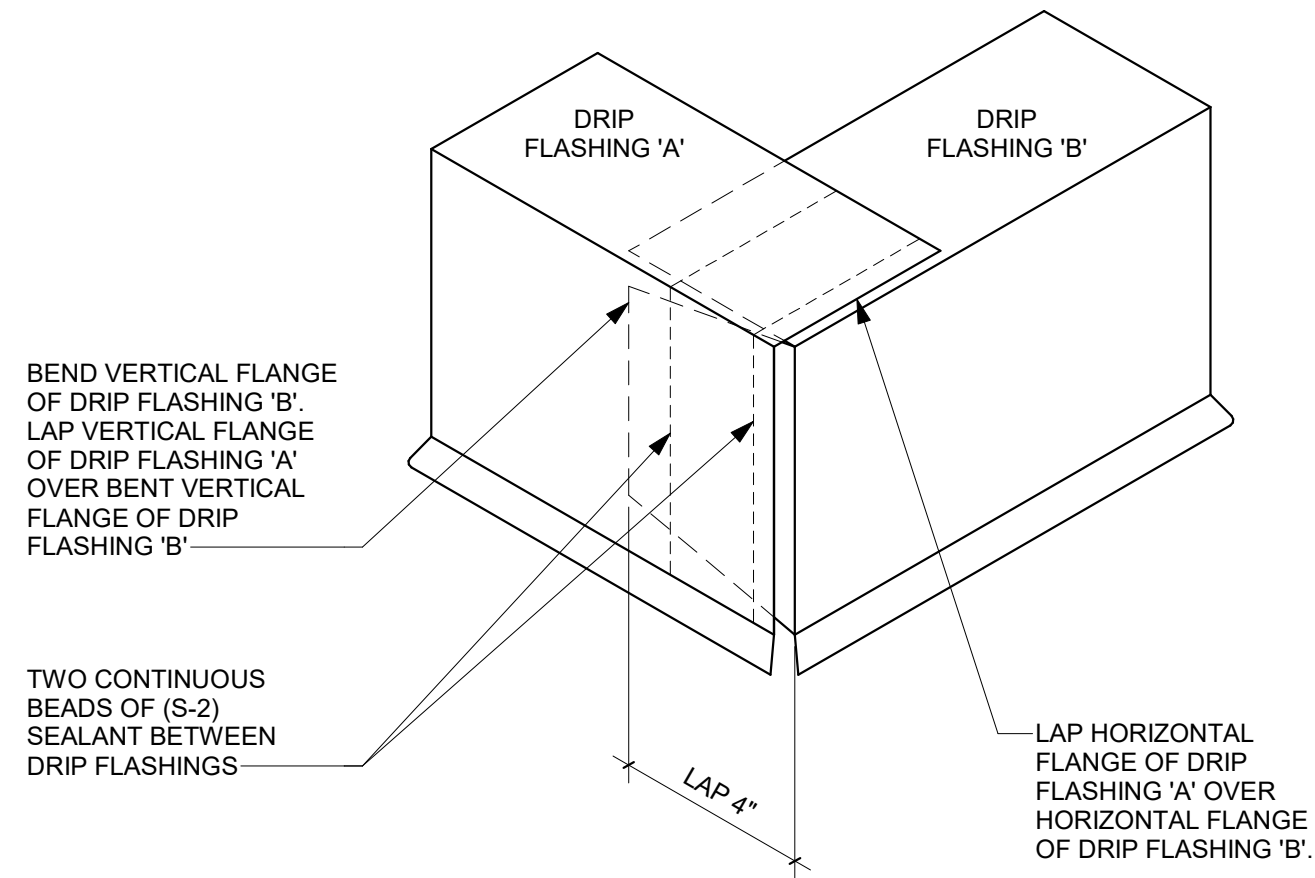
⑫ ROOF TO WALL @ CUPOLA
3" = 1'-0"



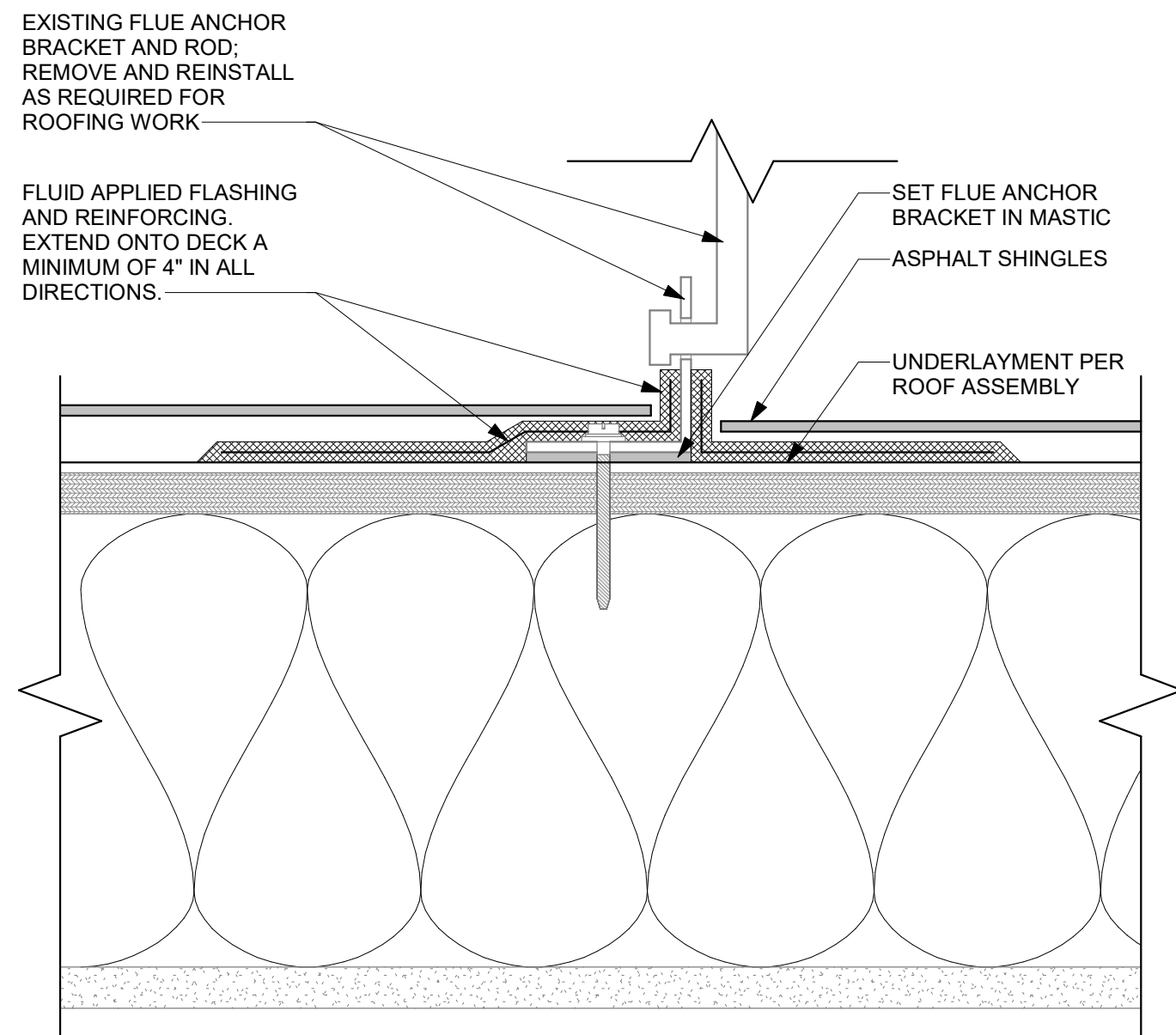
① SOLDERED FLASHING AT CUPOLA VALLEY
NTS



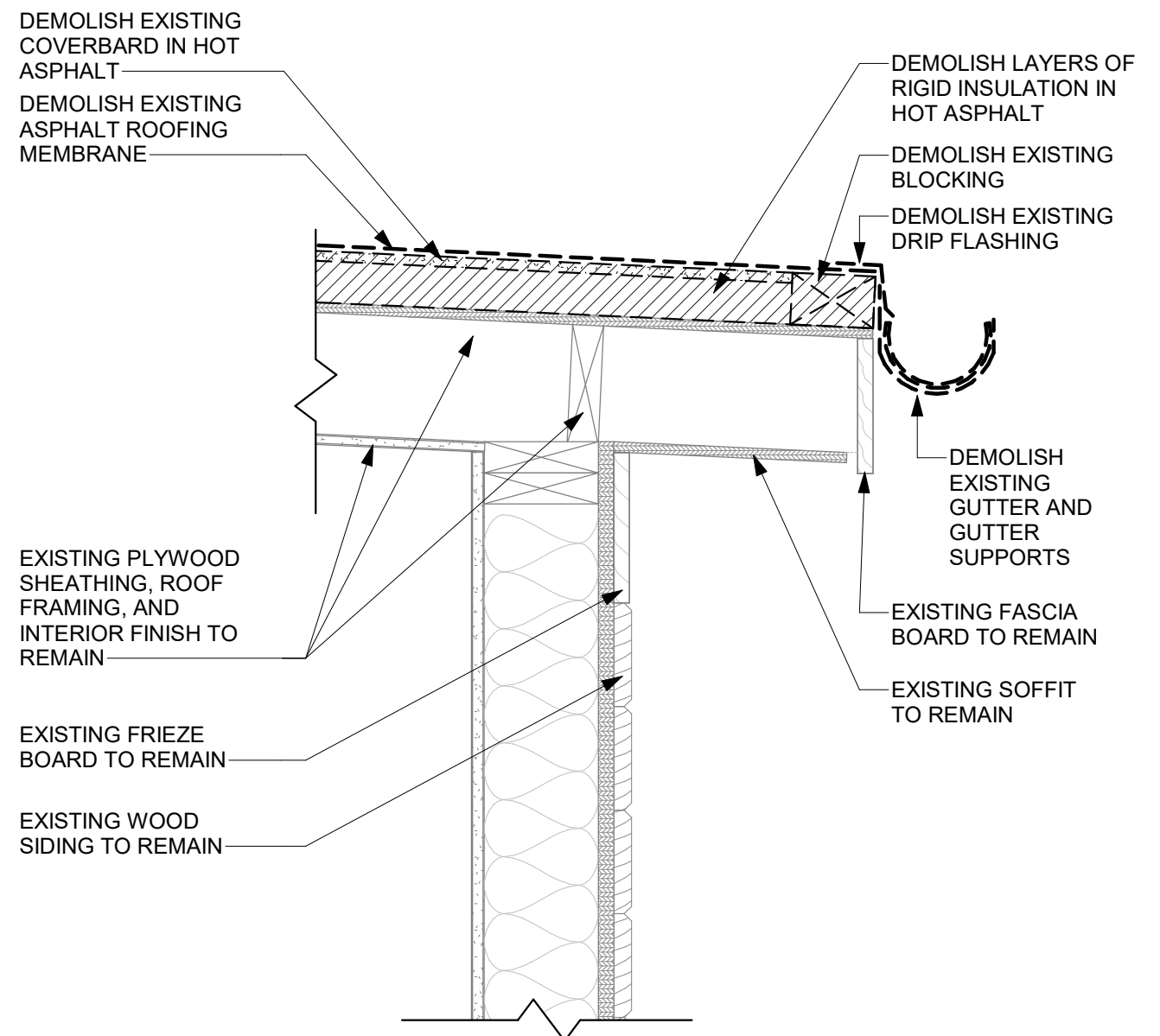
② TYPICAL FLASHING INSIDE CORNER
NTS



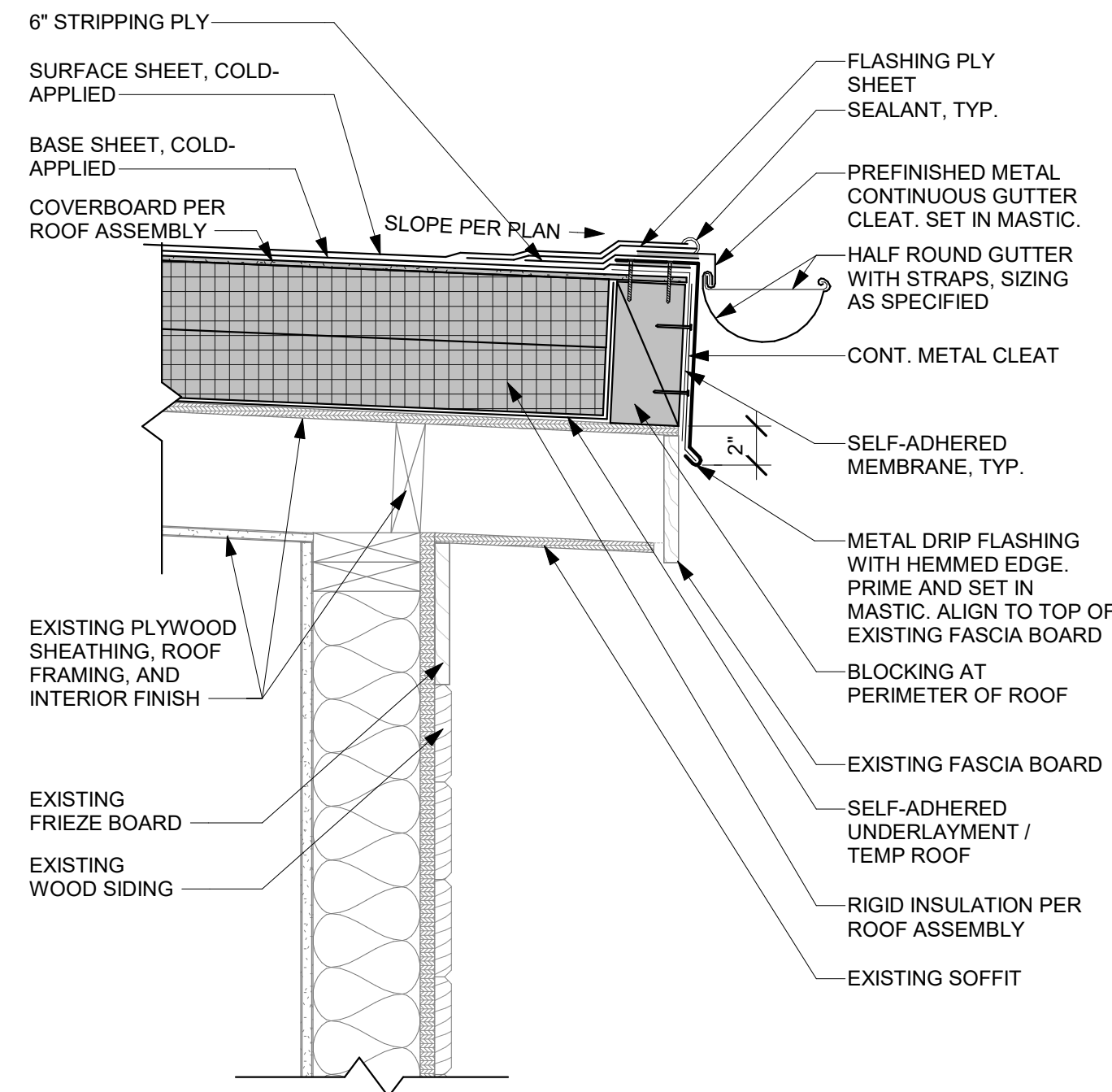
③ TYPICAL FLASHING OUTISDE CORNER
NTS



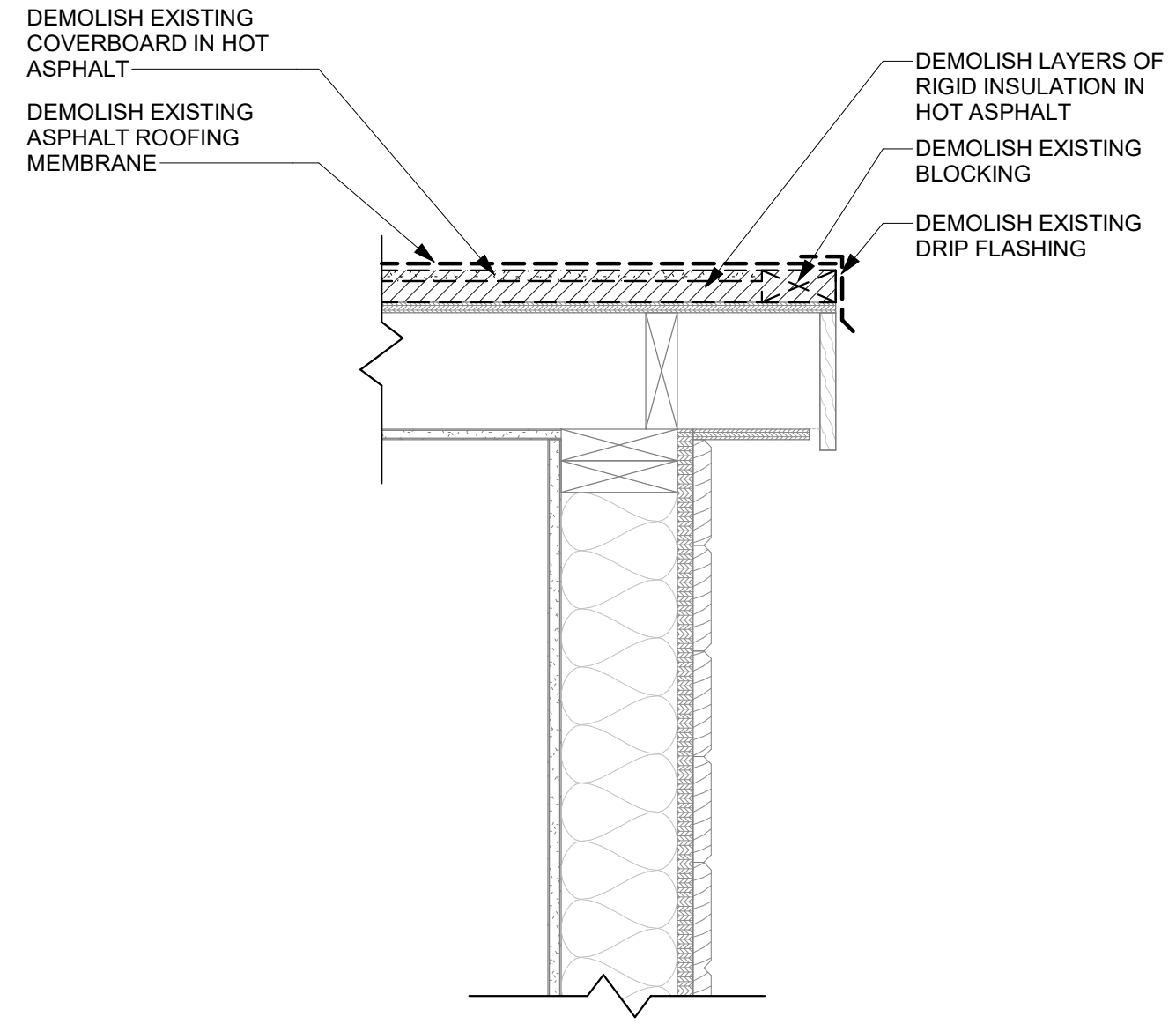
④ FURNACE FLUE ATTACHMENT DETAIL
6" = 1'-0"



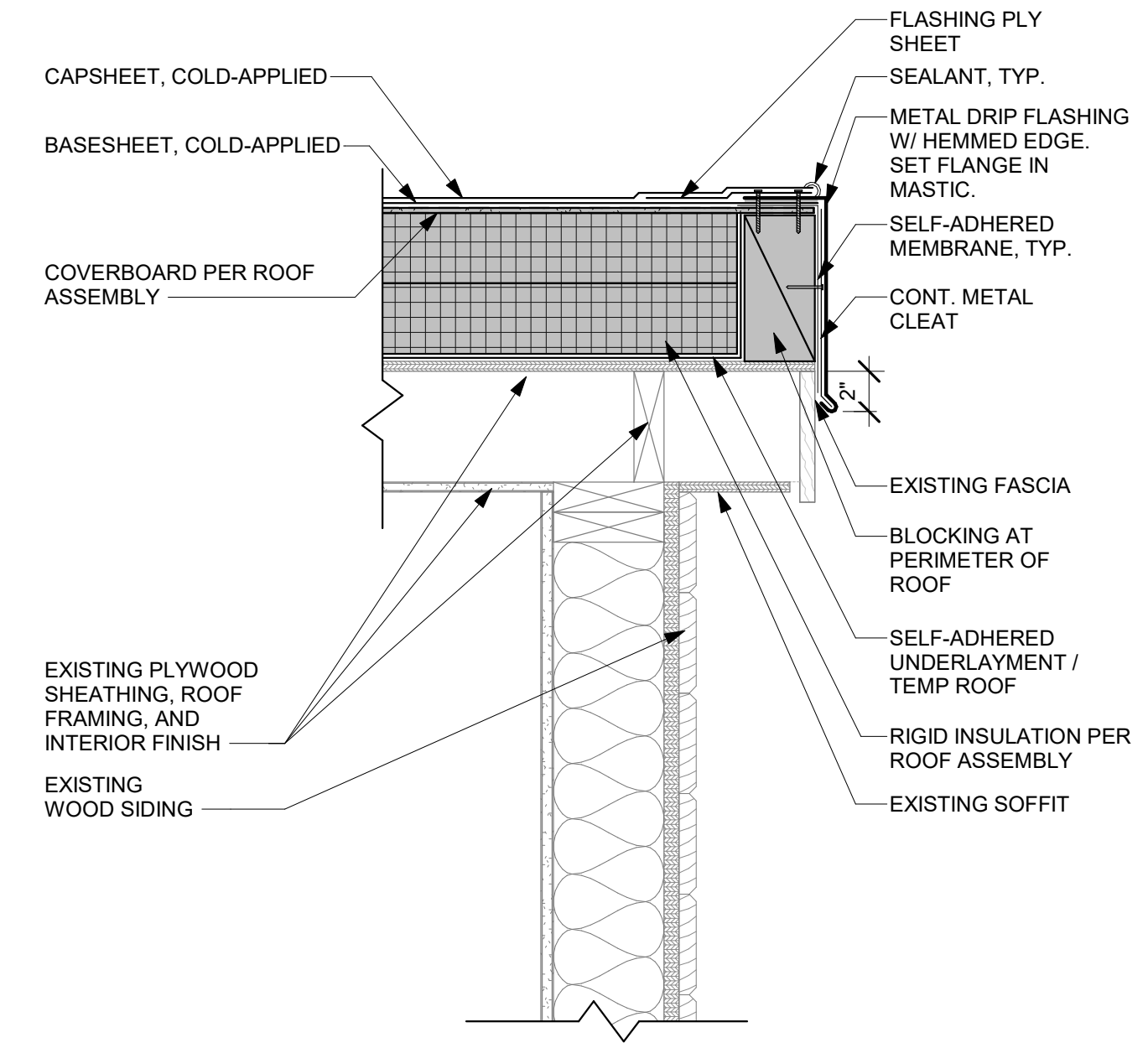
① TYPICAL LOW SLOPE EAVE AT ROOF 9 - DEMOLITION
1 1/2" = 1'-0"



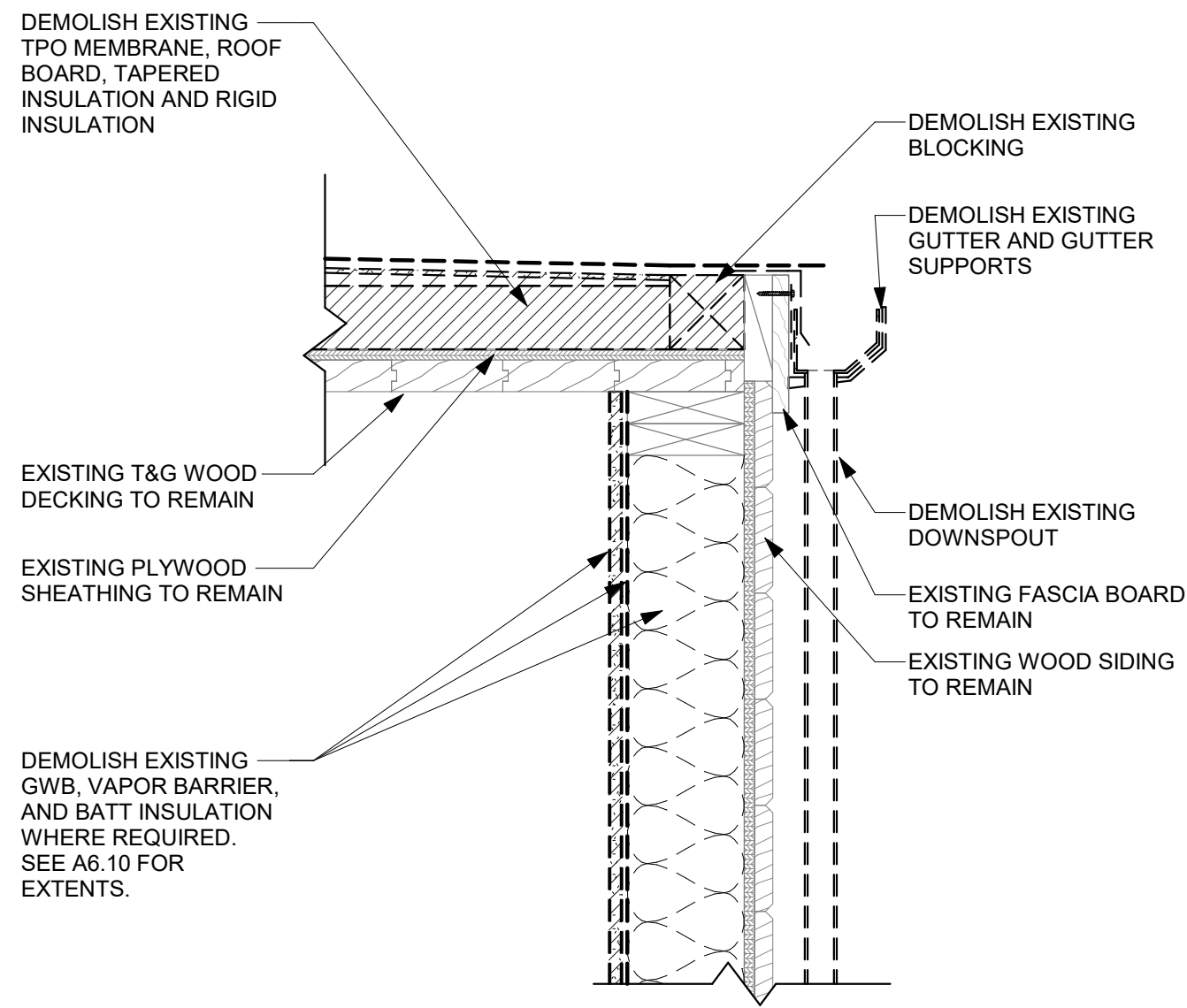
② TYPICAL LOW SLOPE EAVE AT ROOF 9
1 1/2" = 1'-0"



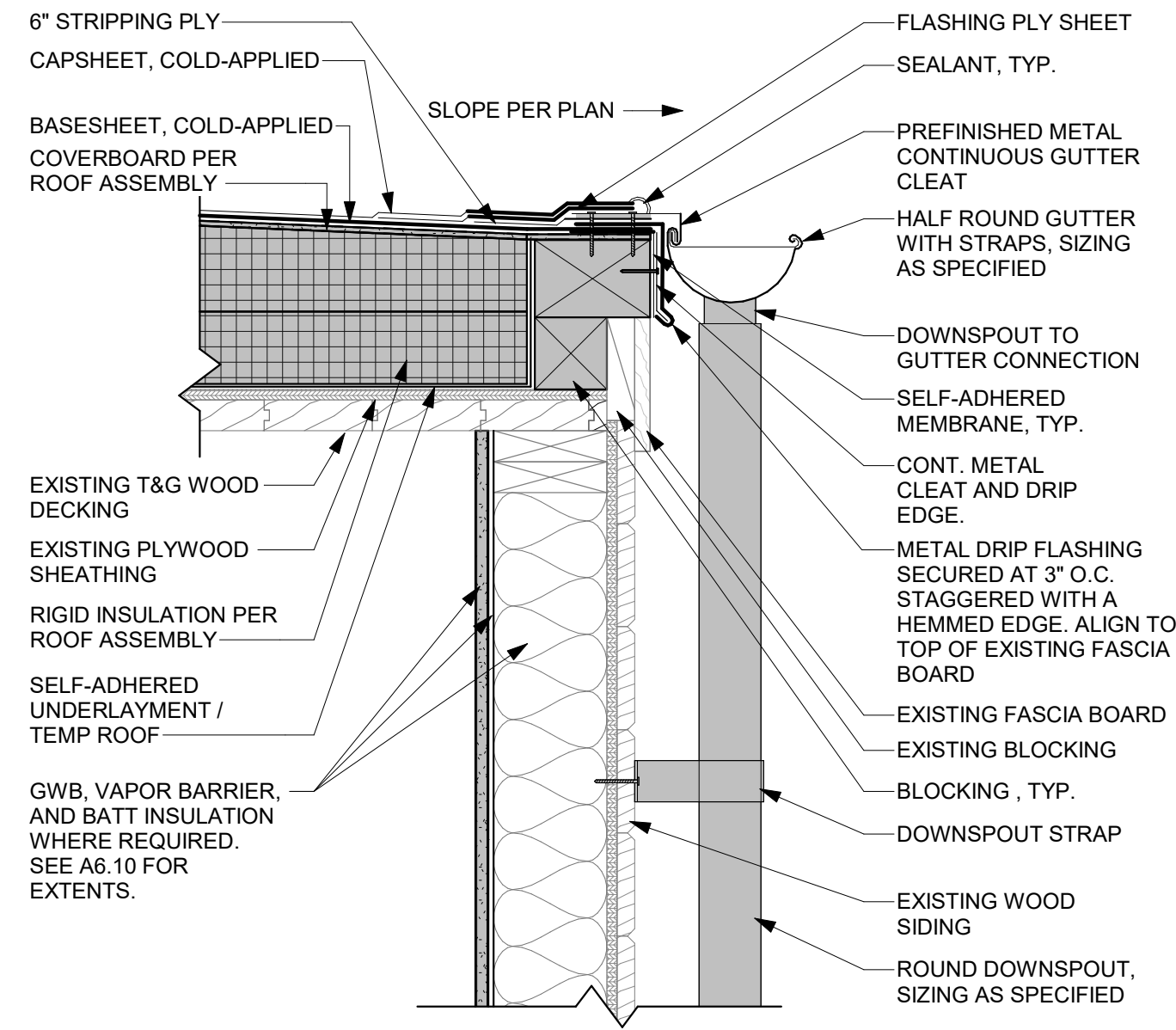
③ TYPICAL LOW SLOPE RAKE AT ROOF 9 - DEMOLITION
1 1/2" = 1'-0"



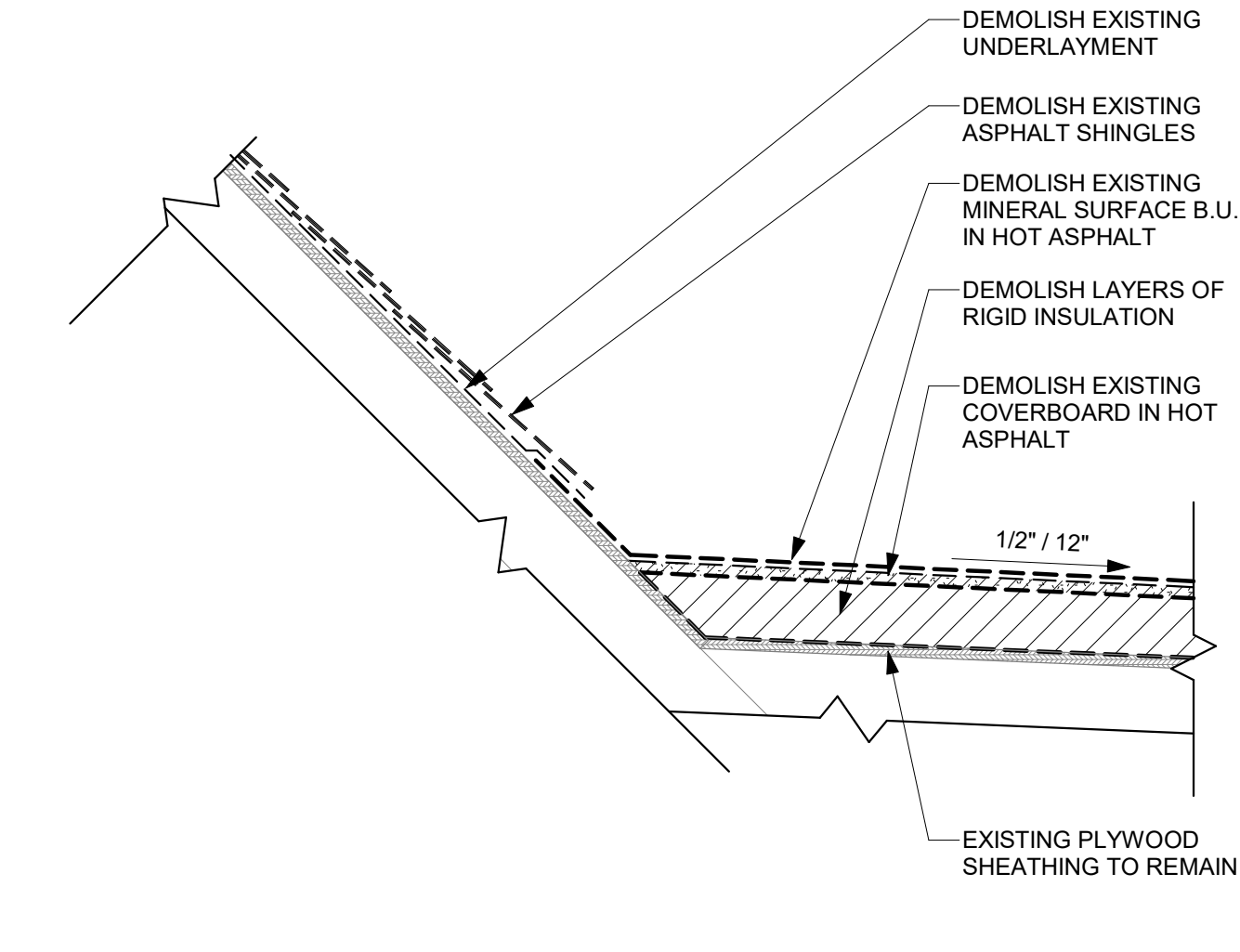
④ TYPICAL LOW SLOPE RAKE AT ROOF 9
1 1/2" = 1'-0"



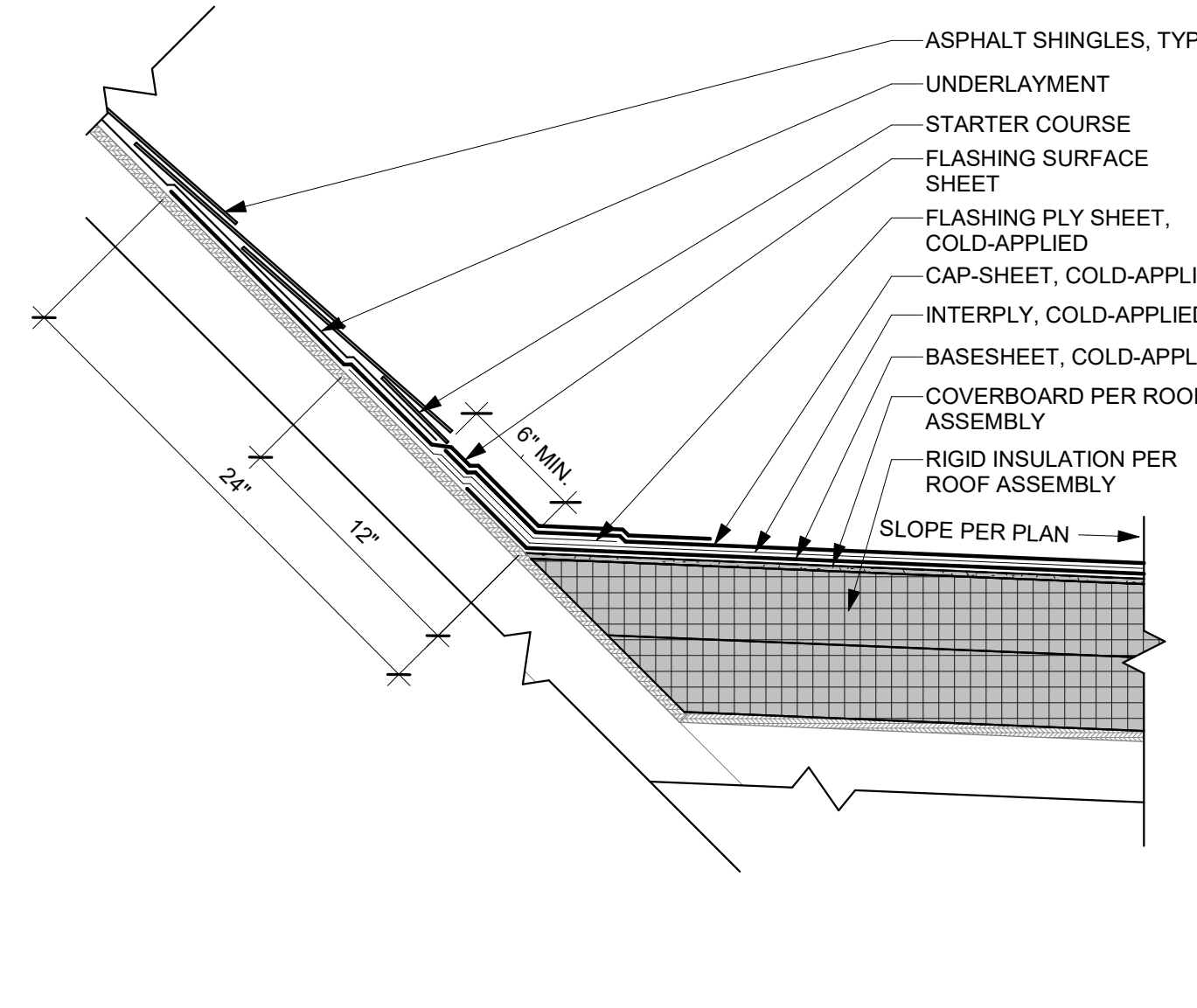
⑤ TYPICAL LOW SLOPE EAVE AT ROOFS 11 & 12 - DEMOLITION
1 1/2" = 1'-0"



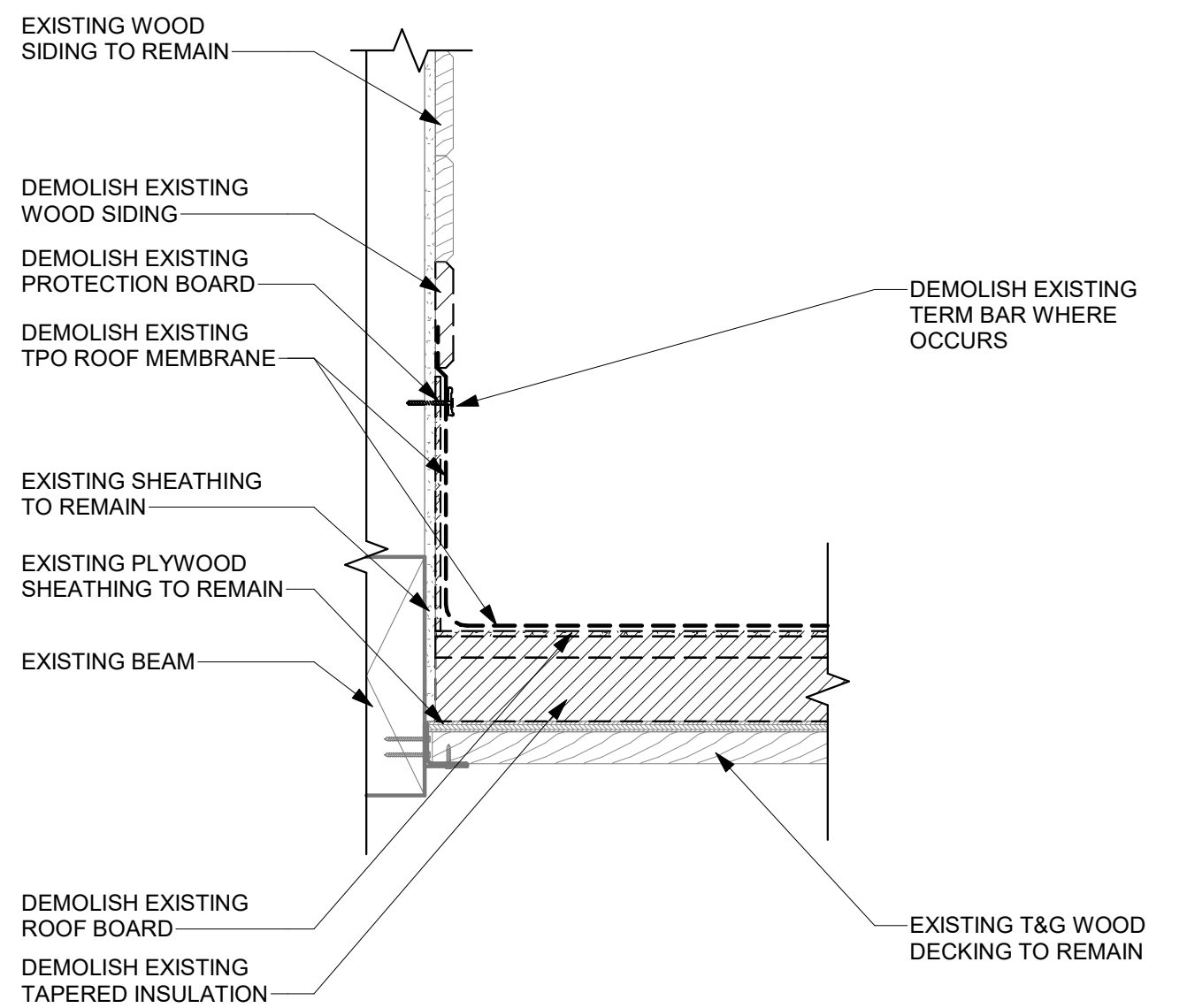
⑥ TYPICAL LOW SLOPE EAVE AT ROOFS 11 & 12
1 1/2" = 1'-0"



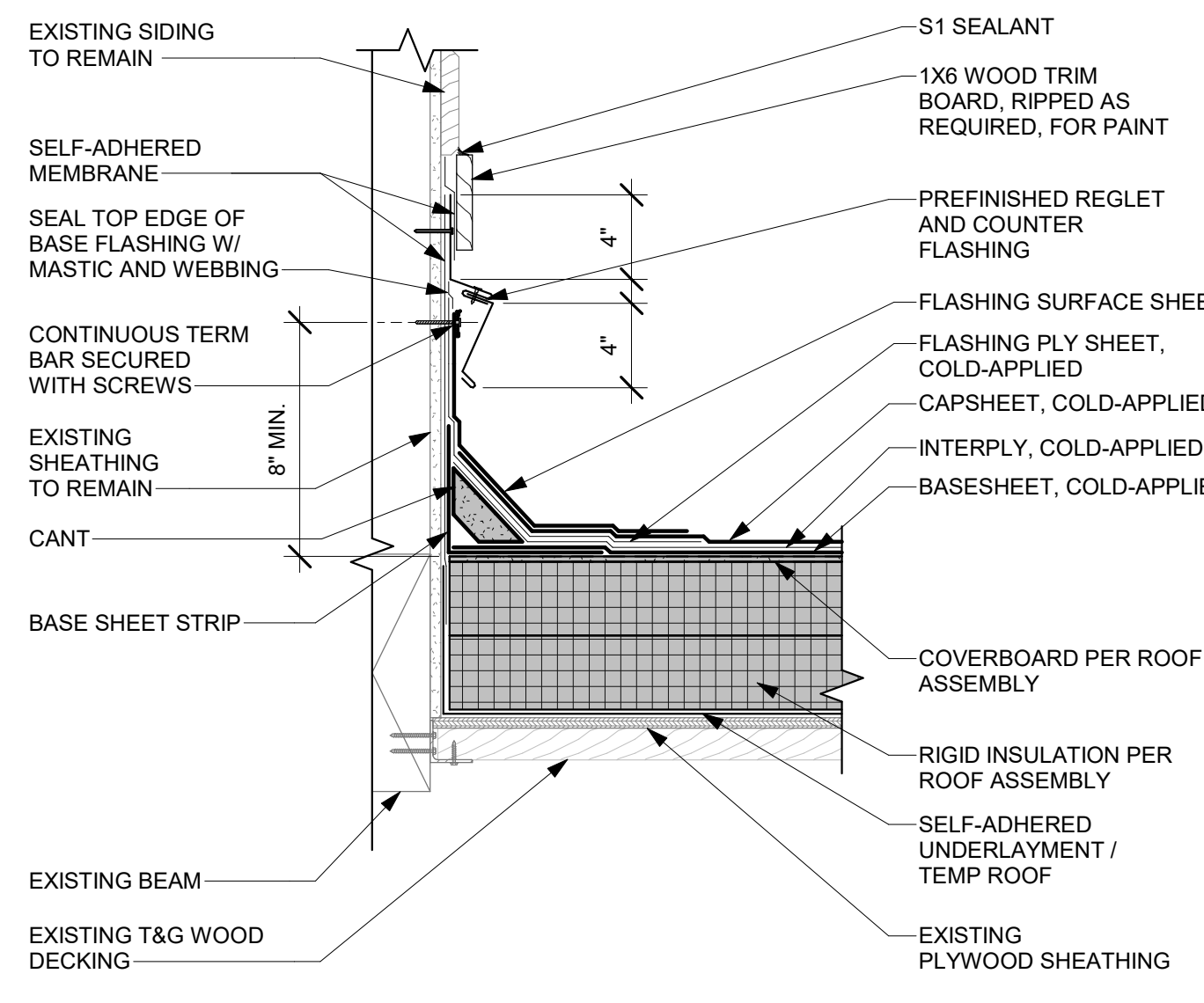
⑦ TYPICAL STEEP SLOPE TO LOW SLOPE ROOF TRANSITION- DEMOLITION
1 1/2" = 1'-0"



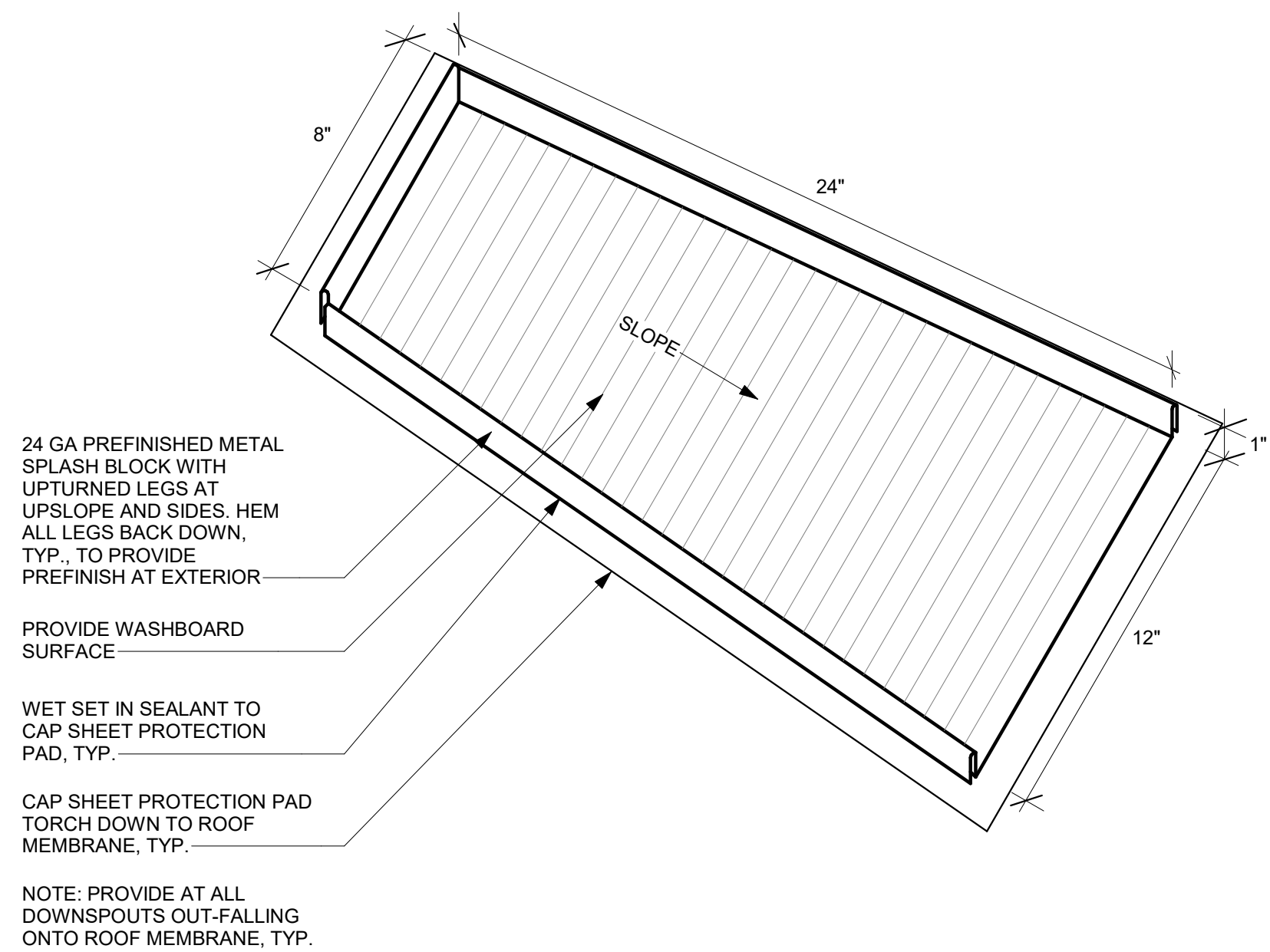
⑧ TYPICAL STEEP SLOPE TO LOW SLOPE ROOF TRANSITION
1 1/2" = 1'-0"



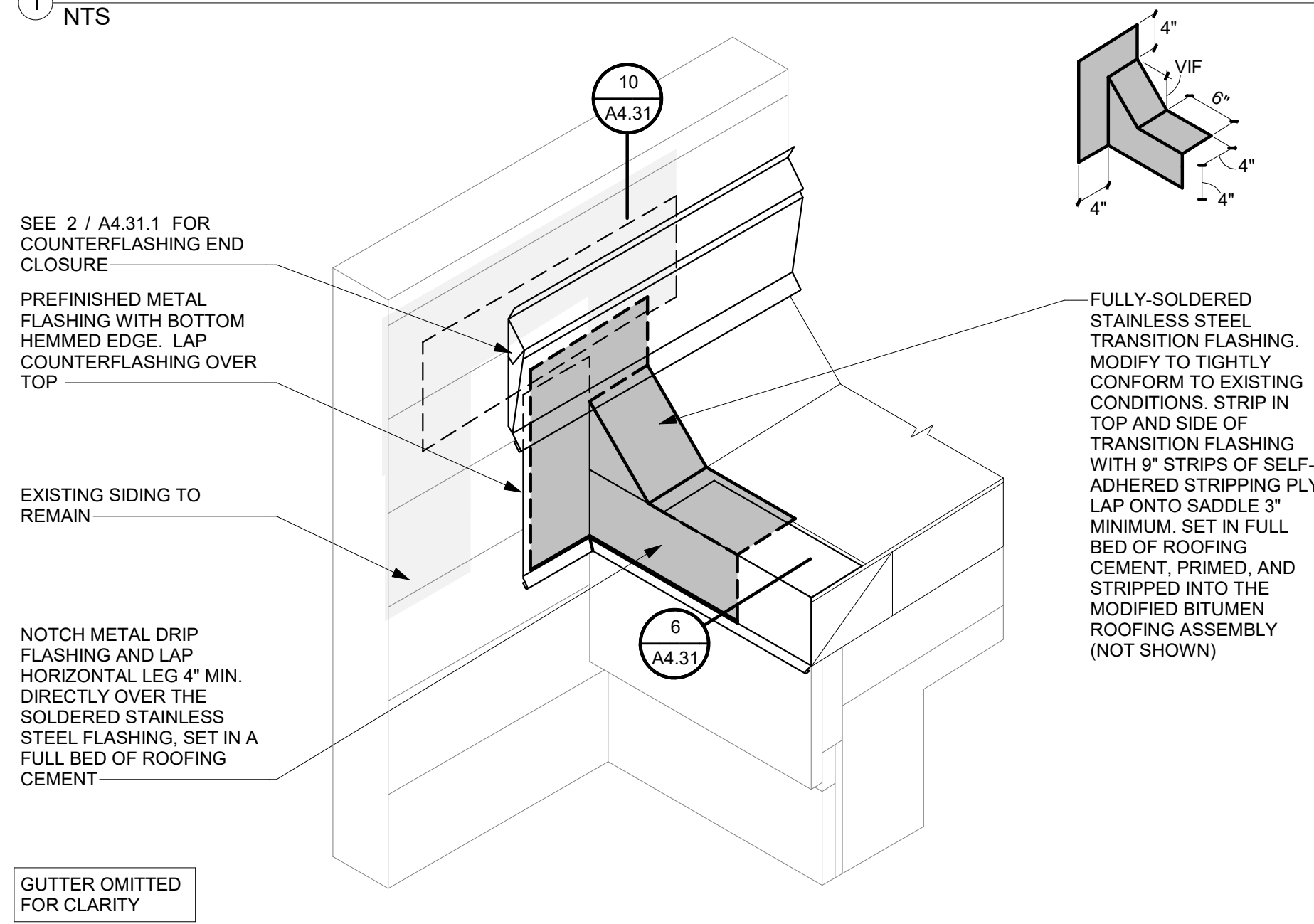
⑨ TYPICAL LOW SLOPE ROOF-TO-WALL - DEMOLITION
1 1/2" = 1'-0"



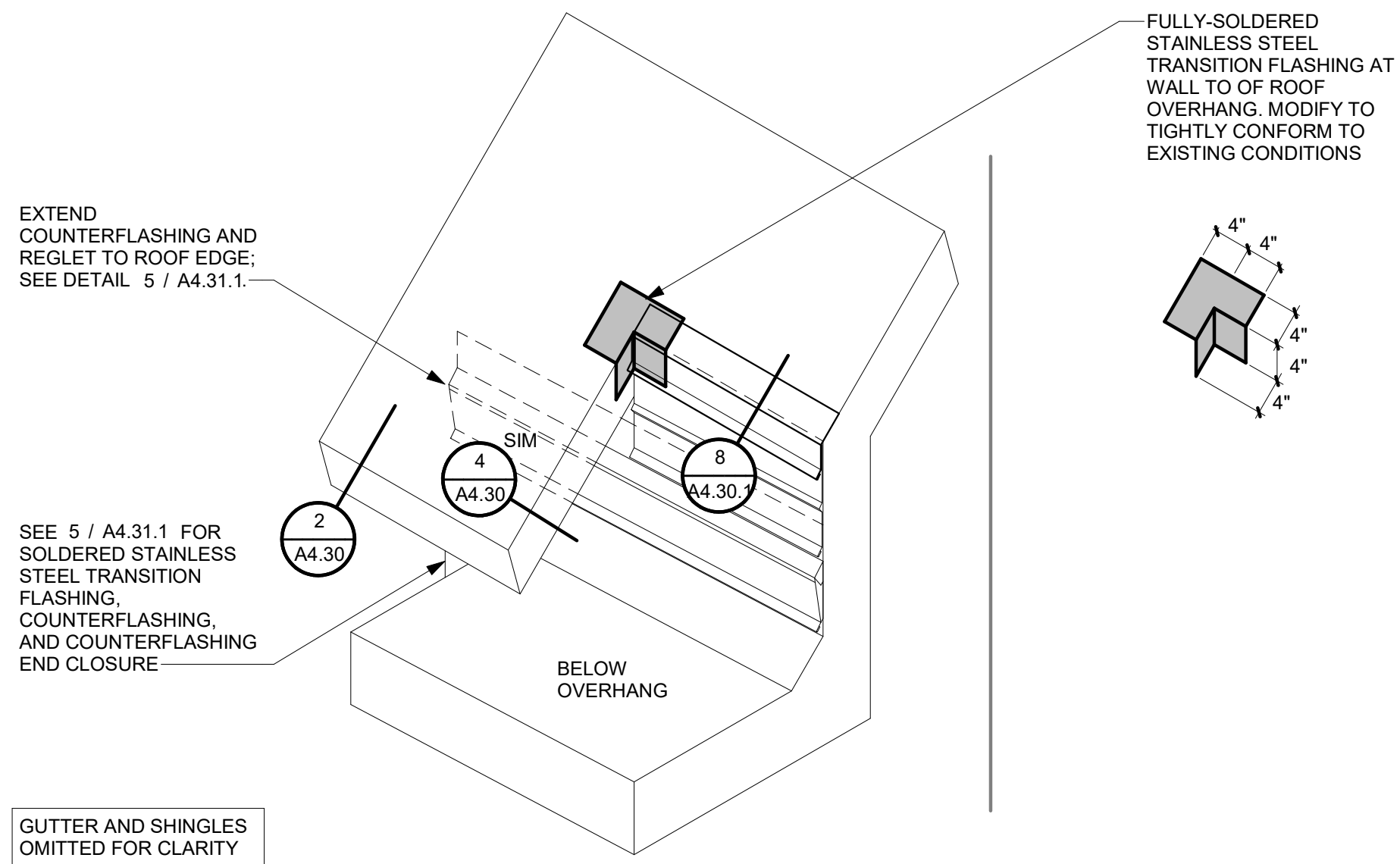
⑩ TYPICAL LOW SLOPE ROOF-TO-WALL
1 1/2" = 1'-0"



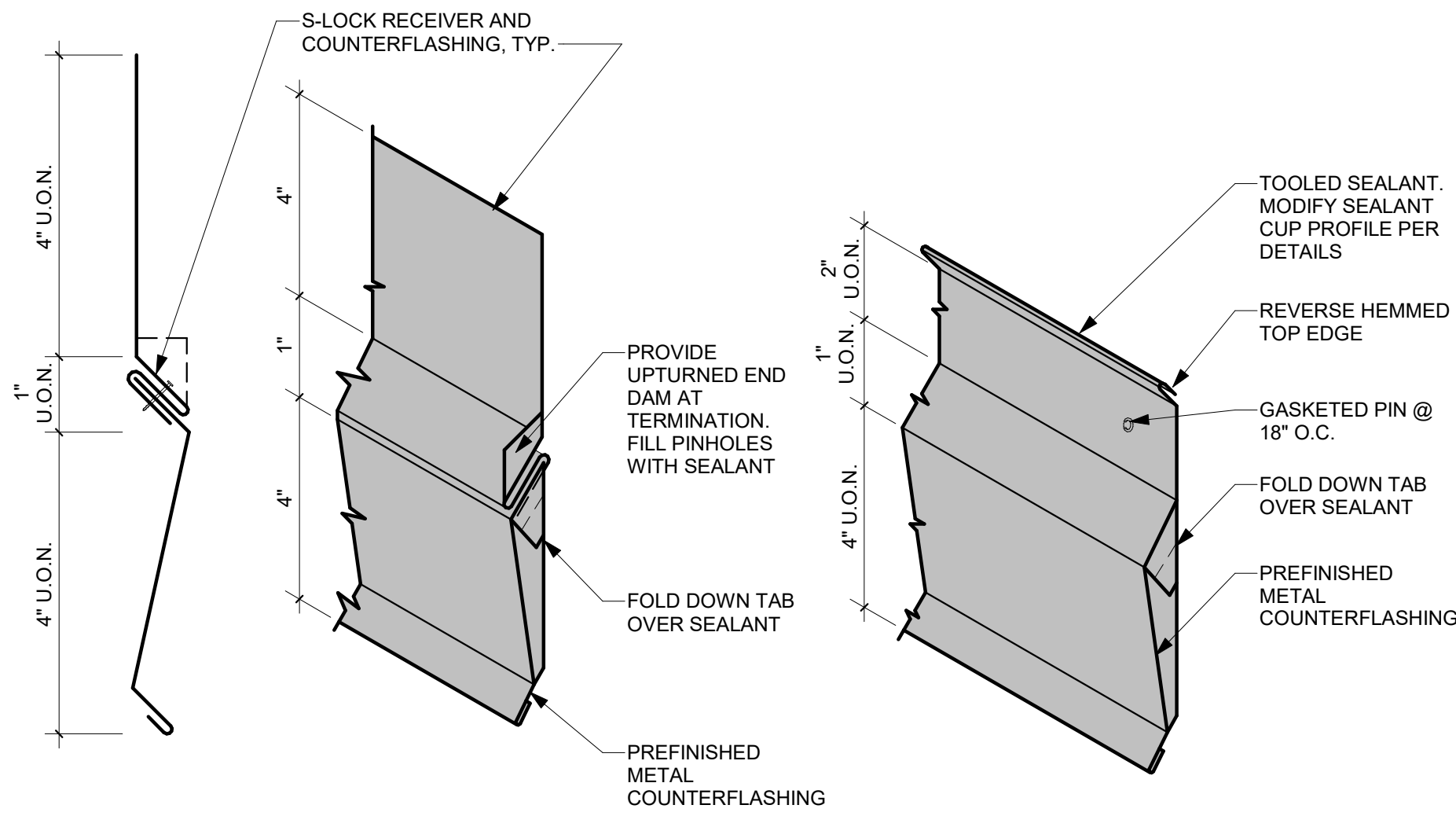
1 TYPICAL SPLASH BLOCK NTS



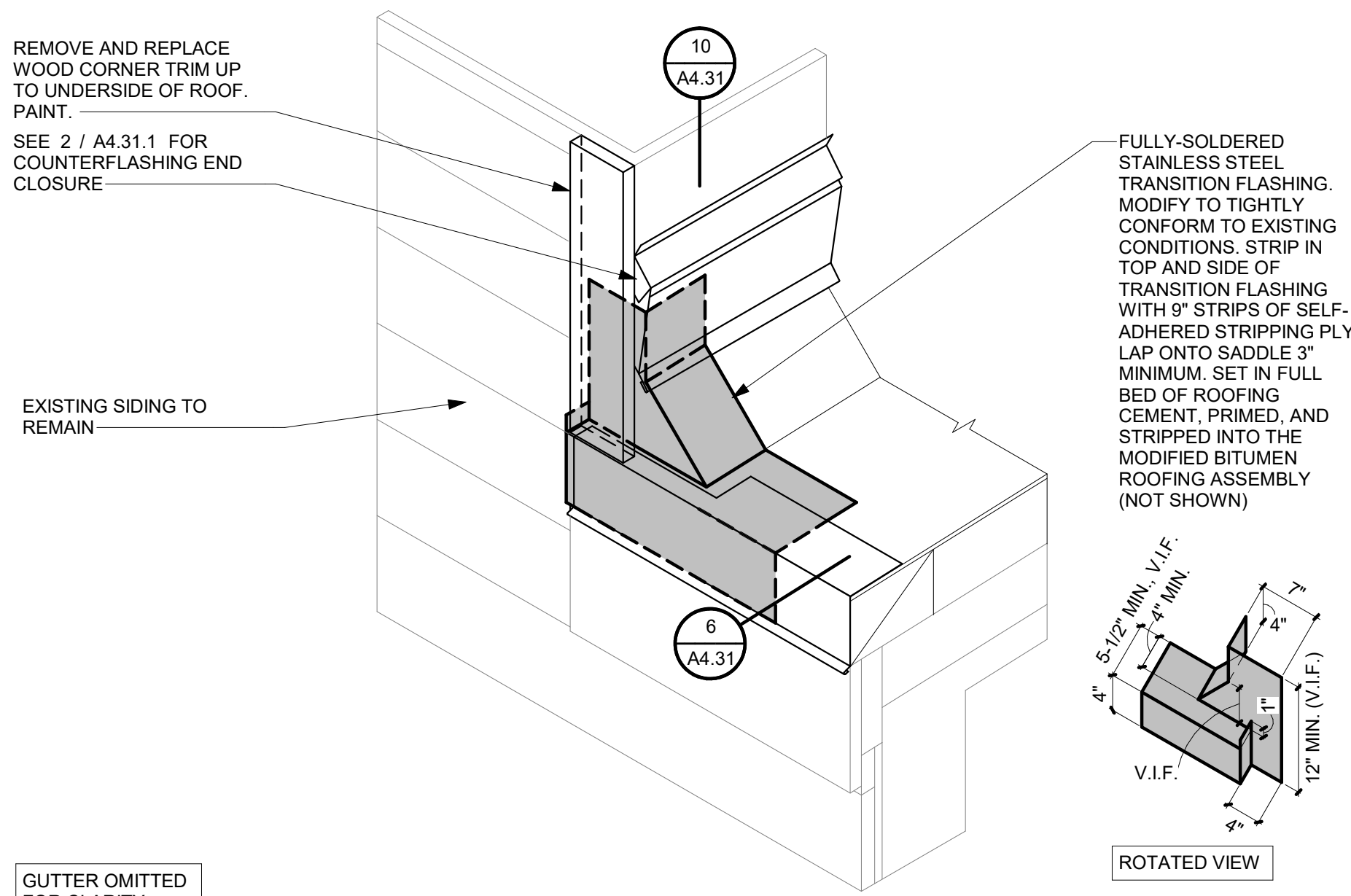
4 TRANSITION FLASHING AT ROOF 11 & 12 GUTTER TO RISING WALL - 'T' INTERSECTION NTS



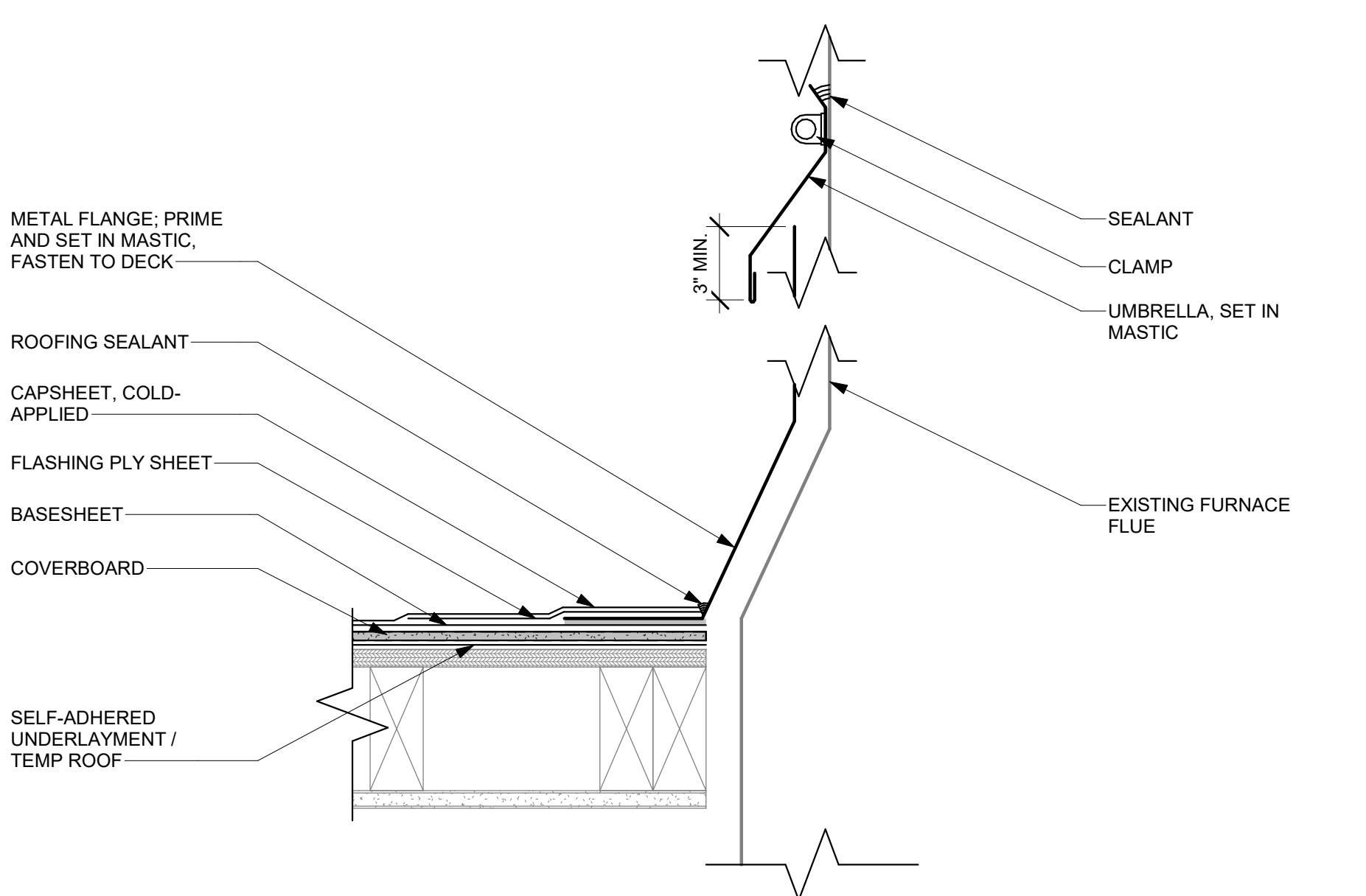
7 ROOF 8-TO-ROOF 9 TRANSITION FLASHING AT C-1 NTS



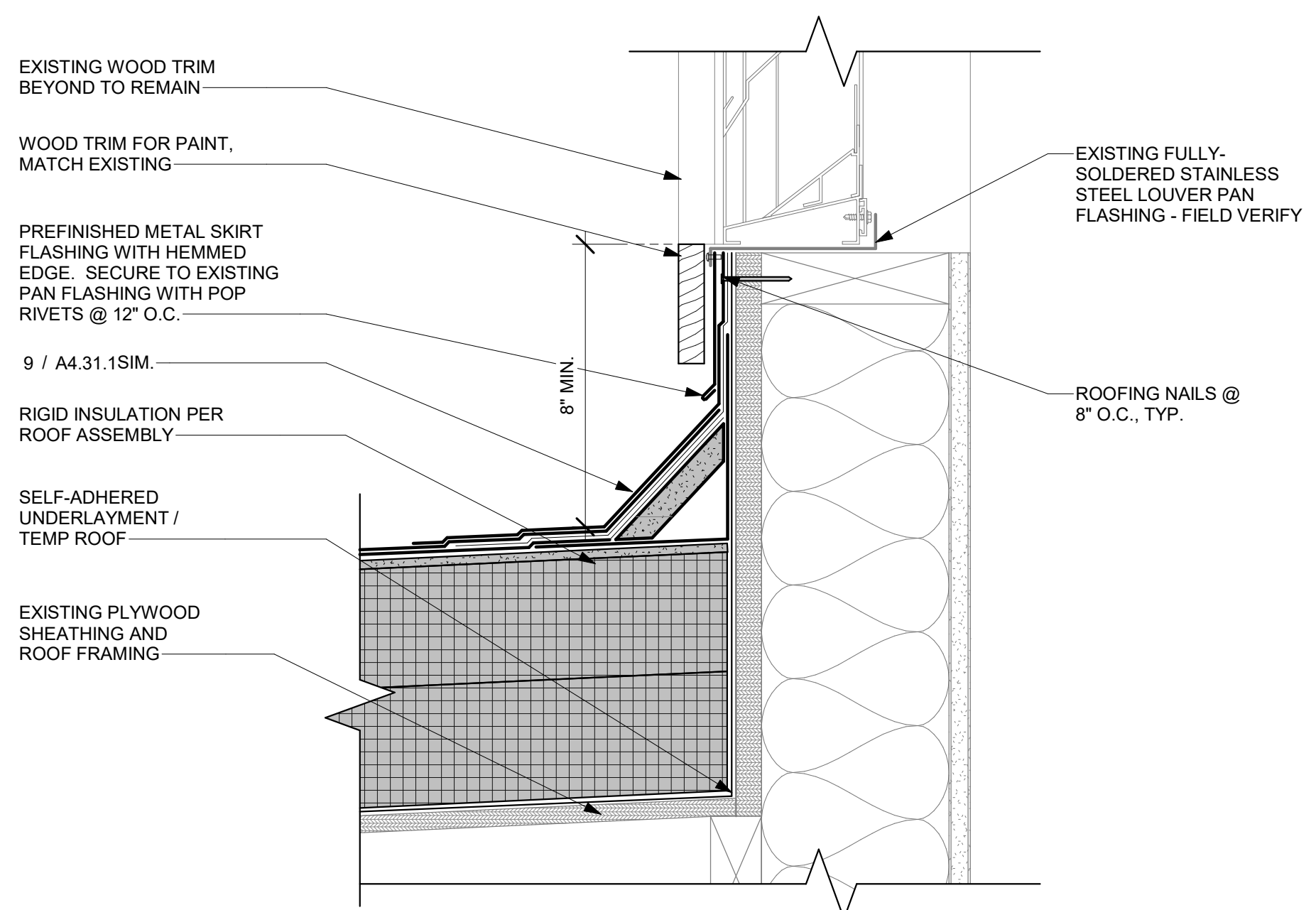
2 TYPICAL COUNTER FLASHING END CLOSURE NTS



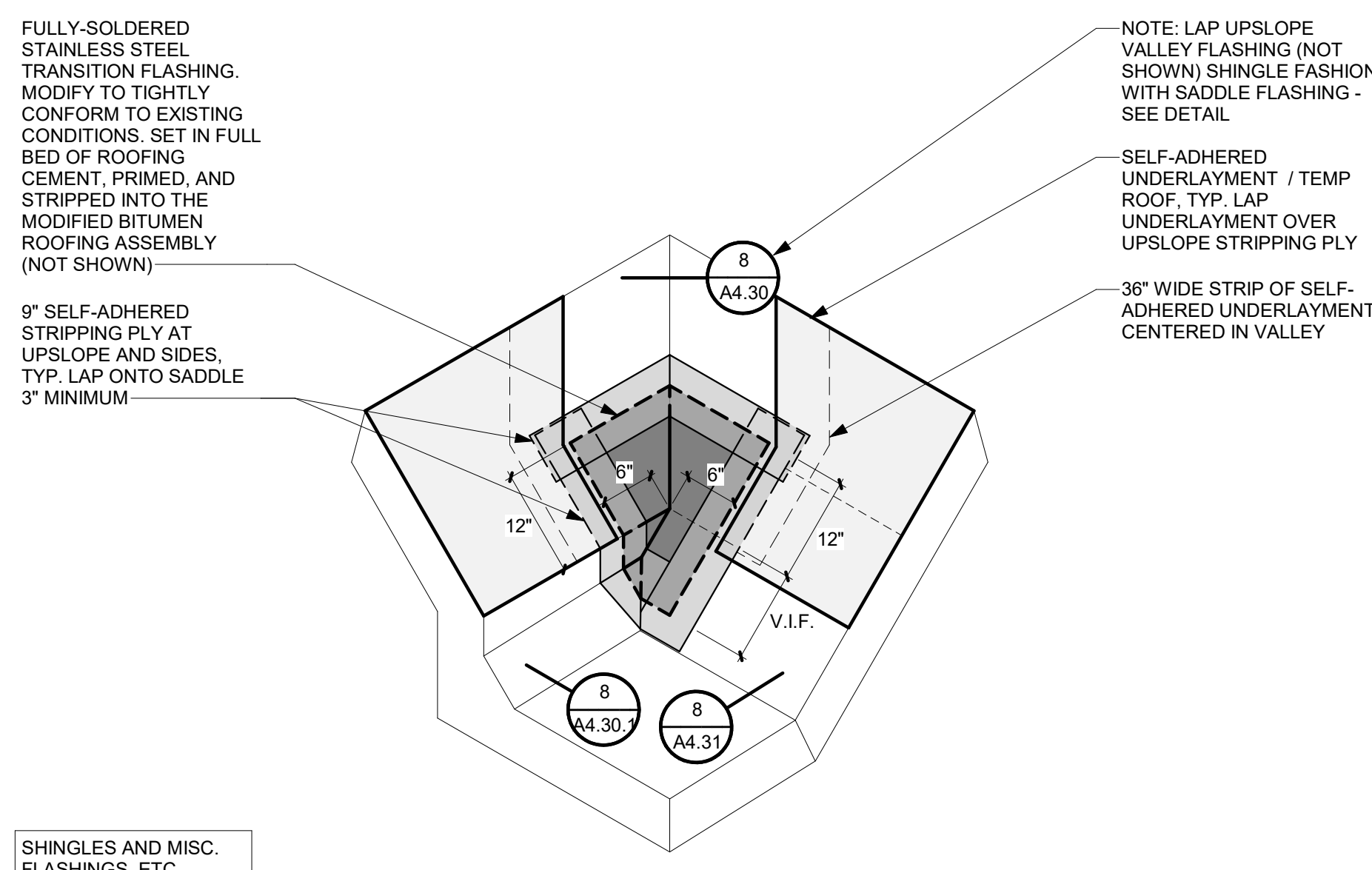
5 TRANSITION FLASHING AT ROOF 11 & 12 GUTTER TO RISING WALL - OUTSIDE CORNER NTS



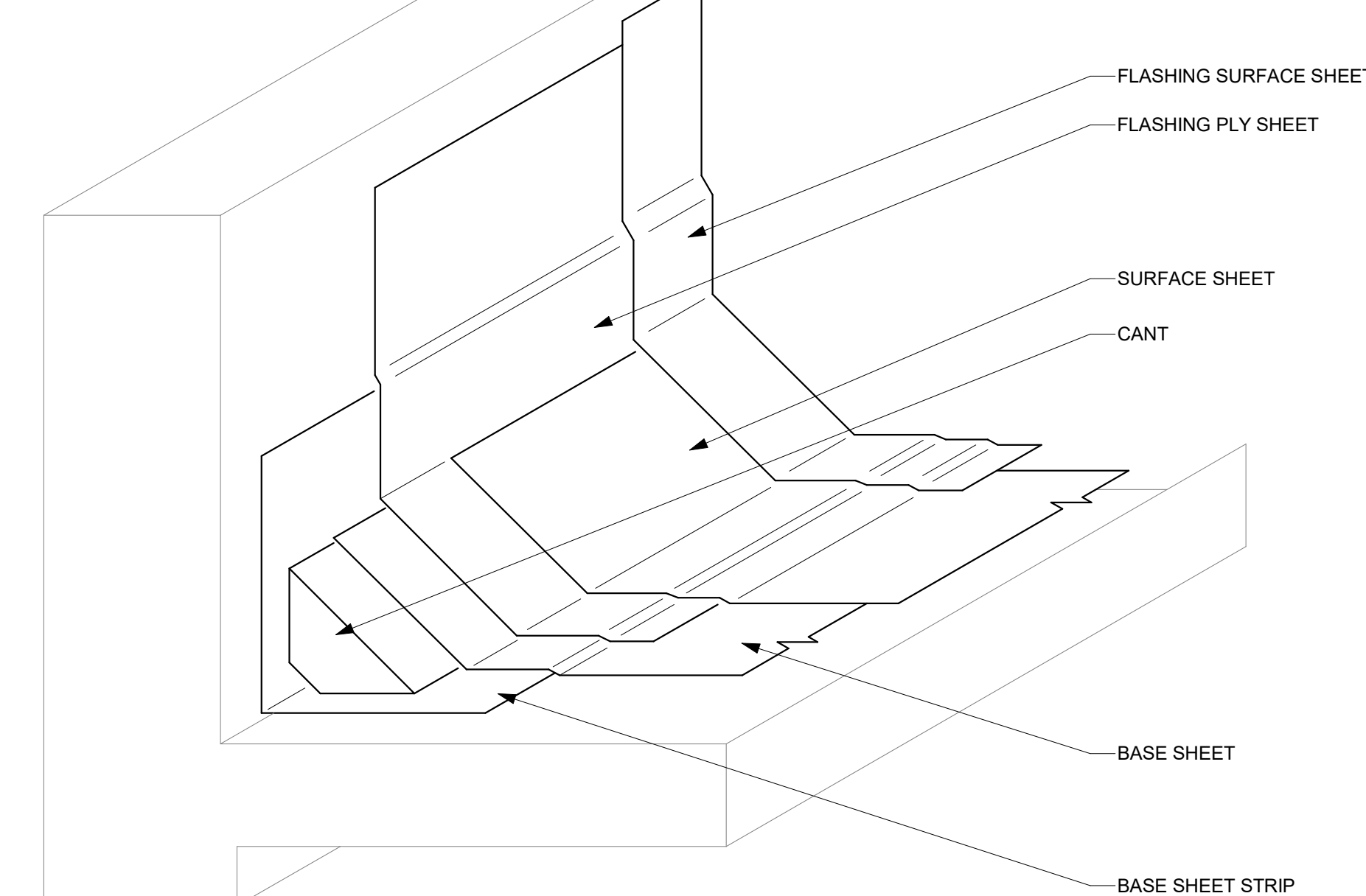
8 FURNACE FLUE DETAIL 3\"/>



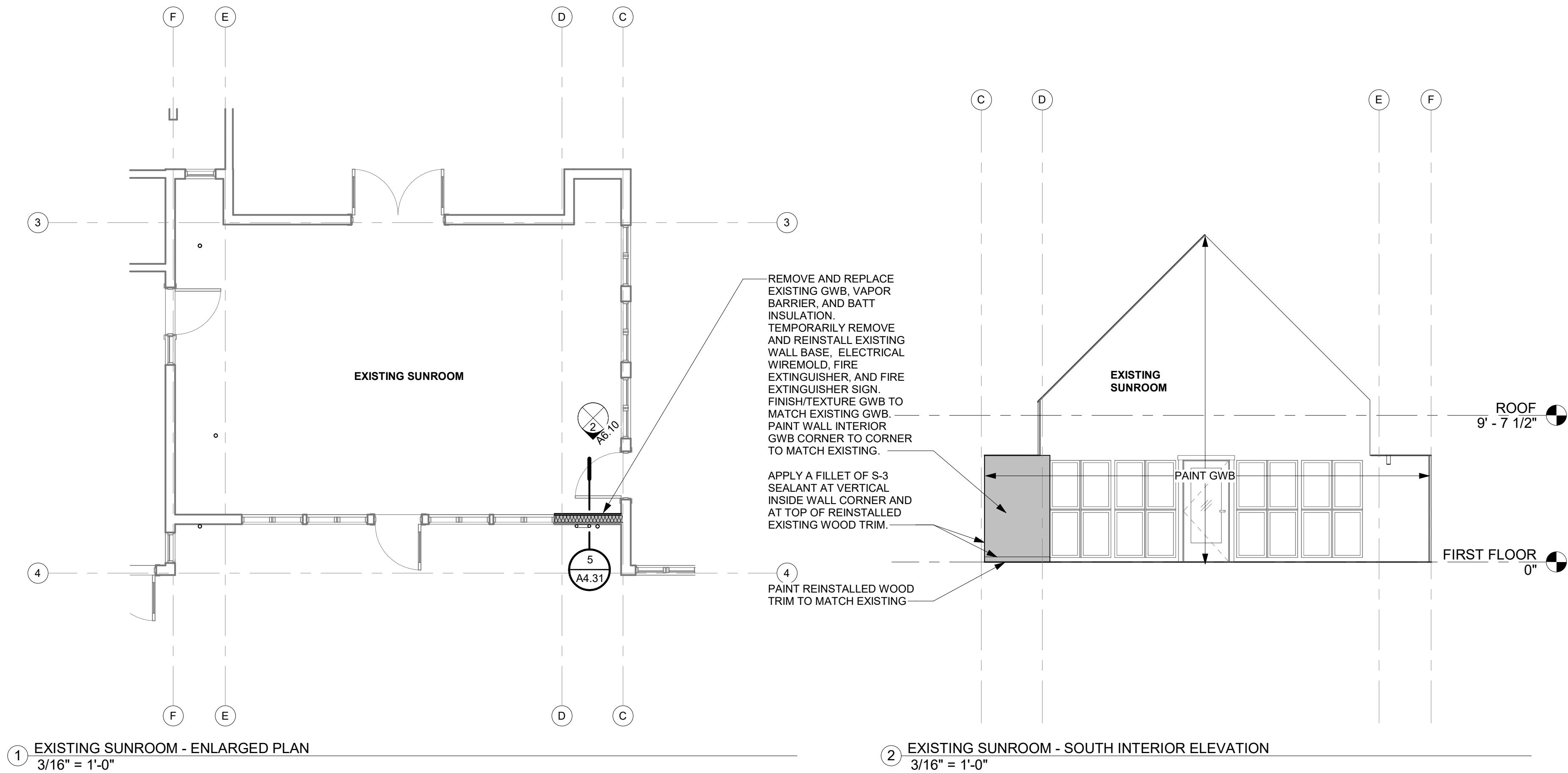
3 LOW SLOPE ROOF-TO-WALL AT LOUVER 3\"/>



6 ROOF 8-TO-ROOF 9 TRANSITION FLASHING AT C-2.1 NTS



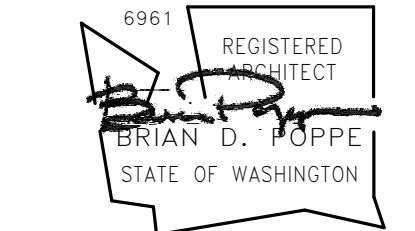
9 TYPICAL MODIFIED BITUMEN ROOF TO WALL TRANSITION NTS



1 EXISTING SUNROOM - ENLARGED PLAN
3/16" = 1'-0"

2 EXISTING SUNROOM - SOUTH INTERIOR ELEVATION
3/16" = 1'-0"

LEGEND	
	EXISTING, TO REMAIN. NO WORK, TYP.
	NEW WORK
	NEW WORK - STEEP SLOPE ROOF ASSEMBLY (SEE A0.30)
	NEW WORK - LOW SLOPE ROOF ASSEMBLY (SEE A0.30)



Owner:
LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Project Title:
LOPEZ ISLAND LIBRARY REROOF
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Sheet Contents:
INTERIOR ELEVATIONS &
ENLARGED PLANS

Revisions:
Rev. Date

Drawn By: KR, RW
Checked: CB, BP
Date: 10/29/2026
Job No.: 736
Sheet No.:

-- GENERAL NOTES --

DESIGN BASIS: Designed in accordance with the 2021 International Building Code (IBC). Project is a re-roof classified as an alteration level 1 in the IECB. Structural requirements are defined in IECB 706.2 which requires increase in demand from gravity loading be less than 5% unless analysis is performed and/or gravity members are reinforced.

- RISK CATEGORY: II (per IBC Table 1604.5)
- DESIGN DEAD / LIVE LOADS
 - Roof Dead Load: Varies - 12 PSF typical
 - Roof Live Load: 20 PSF Typical
- DESIGN SNOW LOADS (ASCE 7-16)
 - Ground Snow Load: Pg = 20 PSF
 - Flat Roof Snow Load: Pf = 14 PSF
 - Minimum Uniform Roof Snow Load = 25 PSF (unreducible)
- DESIGN WIND LOADS (ASCE 7-16)
 - V = 110 MPH / V(asd) = 85 MPH
 - Exposure: D / Internal Pressure Coefficient: +/- 0.18
 - Components & Cladding: Components and cladding wind pressures to be used for the design of exterior components and cladding (by others) shall be determined in accordance with ASCE 7 and the IBC.
- DESIGN SEISMIC LOADS (ASCE 7-16)
 - Site Class = D (default)
 - Seismic Design Category = D / Importance Ie = 1.0
 - Ss = 1.20g / S1 = 0.43g
 - Sds = 0.96g
 - Building System: Bearing Wall System
 - SFRS: Light frame shear walls with structural panels
 - Lateral analysis of the structure is not required for Level 1 alterations.
- QUALITY: Contractor shall ensure high standards of workmanship throughout, with strict adherence to the contract documents and all governing codes and standards.
- DESIGN RESPONSIBILITY: Kingworks is responsible only for the design of the structural modifications as shown in the contract documents. Design of all secondary structure or non-structural elements are by others.
- DISCREPANCIES: Notify the Architect immediately of any discrepancies between these notes, the contract drawings, the specification, or the governing code. The Architect shall reply in writing. Any related work performed by the Contractor prior to receiving a reply from the Architect is at the Contractor's sole risk. For purposes of bidding, the most stringent of the conflicting documents shall apply.
- VERIFICATIONS: Verify all existing conditions; verify all dimensions in the field; verify architectural, mechanical and electrical openings for size, location and number; notify the Architect of any discrepancies, substandard existing conditions, or conditions not included in or contrary to the Contract Documents prior to shop drawing submittal or construction.
- DRAWING COORDINATION: Coordinate the structural drawings with drawings from all other disciplines.
- COMPLETED FORM: The structure shown in these drawings is designed to be stable and to resist the loads above only in a fully completed form. Contractor shall ensure that the structure is adequately braced and shored during construction for all temporary loads until all elements are in place, and shall ensure that temporary loadings do not exceed the allowable capacity of any structural elements both before and after these elements are in place.
- MEANS AND METHODS: Contractor is solely responsible for site safety, coordination, procedures, construction methodology, shoring, bracing, sequencing, and all other means and methods of construction except where specifically shown in the Contract Documents.
- PROTECTION AND BRACING: Contractor is solely responsible for the protection of existing buildings, utilities, streets, equipment, etc. during construction. Provide temporary bracing and protection as required.
- SCALING: Do not scale drawings. See architectural drawings for dimensions, and notify the Architect of any discrepancies.
- ALTERATIONS: Any holes or other alterations to the structure which are not specifically detailed on the Contract Drawings shall be submitted to the engineer for approval.
- MEP CONNECTIONS TO STRUCTURE: Unless specifically shown otherwise in the Contract Documents, all anchorage, support, and seismic bracing of mechanical and electrical equipment, piping, ceilings, fixtures and other non-structural components shall be designed by a Washington State Licensed Professional Engineer and installed by the Contractor. The engineer shall be retained by the Contractor, and the Contractor is responsible for all associated engineering, component, and installation costs. Design shall be per ASCE 7 Chapter 13.
- DELIVERY, STORAGE AND HANDLING: All products shall be delivered, stored, and handled according to the Manufacturer's recommendations and installation instructions. Protect all items from damage, moisture, corrosion, or other deterioration before, during and after installation.
- COPYRIGHT: These drawings, and all designs shown within these drawings, are copyrighted by Kingworks Structural Engineers. Duplication is not permitted without written permission. The designs shown herein are intended for this project only and may not be used on any other project or for any other purpose.

-- SUBMITTALS --

- GENERAL: Provide PDF of all submittals to the Architect. Allow two weeks for review. Submittals will be reviewed for general conformance to the contract documents. Responsibility for adherence to the contract documents lies solely with the Contractor, including but not limited to dimensions, sizes, connections, and quantities.
- CONTRACTOR REVIEW: Contractor shall review, mark, and stamp all submittals before submittal to the Architect. Unreviewed or unstamped submittals will be returned to the Contractor without review.
- RESUBMITTALS: Resubmittals shall have all revisions clearly identified with "drawing clouds" and revision dates. KW shall not be responsible for review of any unmarked revisions.
- SHOP DRAWINGS: To include typical and unique conditions and all connections, shall be submitted to the Structural Engineer of Record for the following products prior to fabrication. Shop drawings shall clearly demonstrate the Contractor's understanding of the contract documents. The following shall be considered minimum structural submittals for this project:
 - Non anticipated
- DEFERRED SUBMITTALS: Shall be designed by a Washington State Licensed Professional Engineer (Structural Engineer where required by jurisdiction). Submittals shall clearly indicate all loads and reactions to be imposed on the primary structure. Submittals shall include all components and connections required to perform the work. Where the Contract Documents indicate member or connection qualities and/or quantities, these shall be considered a minimum and remain the design responsibility of the component engineer to increase as required to satisfy load and deflection requirements. Deferred submittals shall include calculation set. Both the calculation set and all related shop drawings of the deferred submittal shall be sealed prior to submission. The Architect shall forward deferred submittals to the Building Official where required. The following shall be considered Deferred Submittals on this project:
 - Non anticipated
- SUBMITTAL REVIEW COMMENTS: Engineer marks and comments on shop drawings and other submittals are a normal and expected part of the submittal process, and are not to be used as a basis for change orders except in cases where these marks result in or derive from substantial changes to the Contract Drawings. Time required to revise and resubmit any submittal shall be considered inherent to the submittal review process and shall not be deemed a change order. If discrepancies are discovered between the submittals and the Contract Documents (either before, during, or after submittal review), the Contract shall govern and be implemented unless specifically directed otherwise.

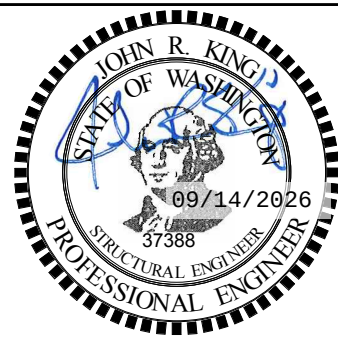
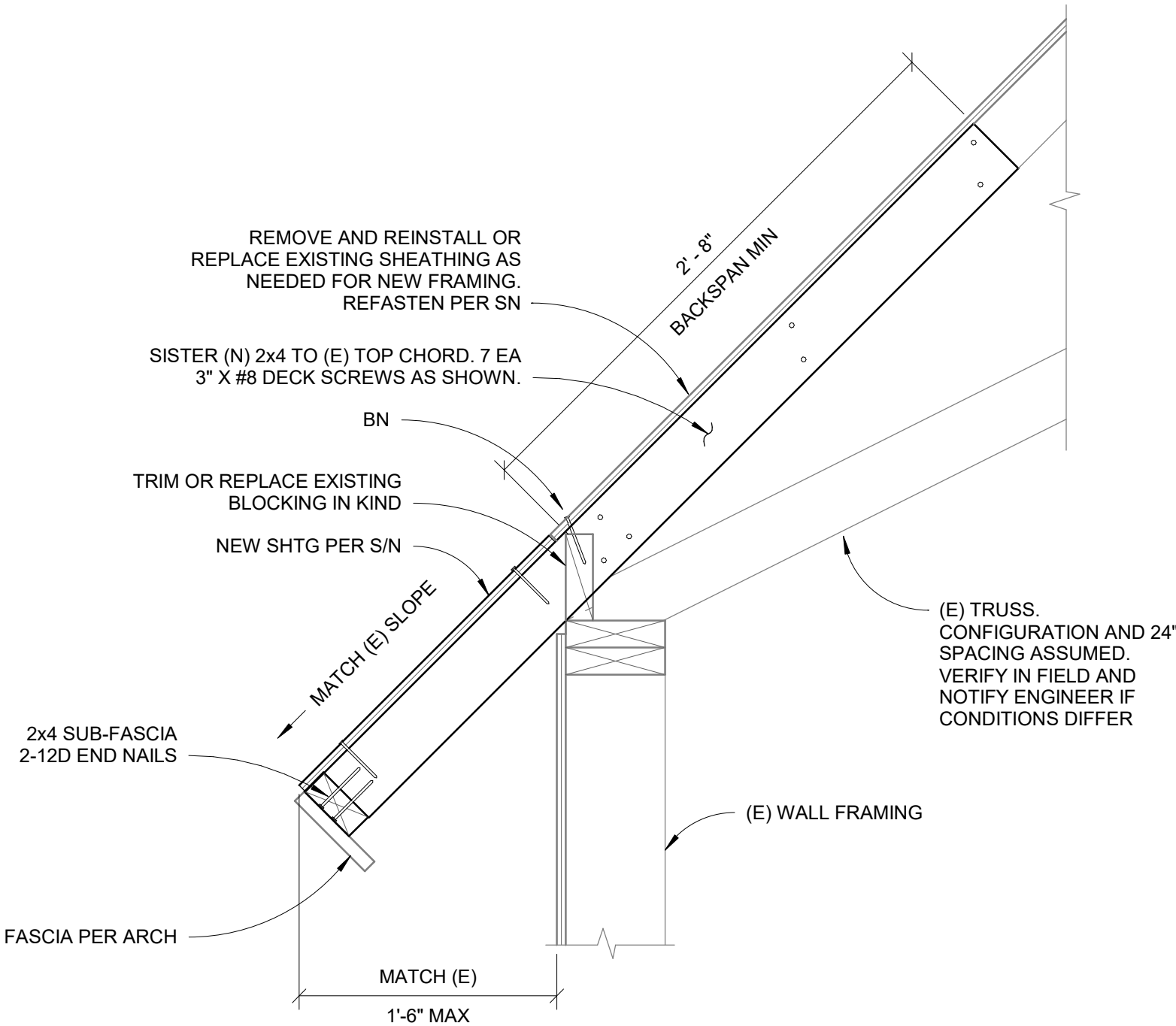
-- WOOD FRAMING --

- REFERENCED STANDARD: All work shall conform to the IBC unless otherwise indicated.
- MATERIALS (unless otherwise noted in the drawings)
 - Joists / Rafters: Doug Fir #2
- MOISTURE CONTENT: All sawn lumber, including heavy timber, shall be kiln-dried to a maximum moisture content of 19%. For pressure-treated framing, kiln-drying shall occur after treatment.
- NAILS: Nail sizes shown are 'common' (not 'box') uon. 8d = 0.131"x2.5", 10d = 0.148"x3", 12d = 0.148"x3.25", 16d = 0.162"x3.5". Typical nailing not otherwise shown in the drawings shall be per IBC Table 2304.10.1. Where nailing occurs in two or more rows, the on-center spacing indicated in the drawings shall be for each row. Where on-center nail spacing for a single row is less than 6" (for 12d and larger) or less than 4" (for 10d and smaller), stagger each row of nails into two rows offset by 1/2" min. All nails shall maintain 3/8" min to framing or sheathing edges.
- ALTERATIONS: Do not notch any structural wood members. See typical detail for allowable hole locations and sizes (for mechanical or electrical utility passage).
- EXTERIOR WOOD PROTECTION: Provide flashings, sealants and finishes per the Architect in order to protect all exterior wood surfaces and post/beam ends from moisture.
- GALVANIZING: All steel components, hardware, or fasteners for wood framing members exposed to moisture, high humidity, or in contact with pressure treated lumber shall be hot-dip galvanized per ASTM A153. Light gage connectors shall be galvanized per ASTM A653, G185 minimum (Simpson "Z-max" or approved equal). The above described galvanizing requirements specifically include, but are not limited to: nails, screws, bolts, washers, nuts, anchor bolts, threaded rods, cast-in-place and post-installed anchors, Simpson hardware, and weldments. (Exception: not required for SBX/DOT borate-treated wood protected from weather.)
- SHEATHING: Place roof and floor sheathing with face grain oriented in the direction of span. Offset adjacent rows of sheathing panels by 24" minimum, with all panel ends bearing on joists, beams, trusses or walls. Place cants or crickets over continuous basic roof sheathing with drilled vent holes per the Architect. Where edges are not required to be blocked per schedule, provide Simpson PSCA clips at spacing per catalog recommendation. All sheathing shall be APA rated, with type/blocking/fastening per the following schedule. Provide 1/8" gaps between abutting sheet edges, typical.
- SHEATHING FASTENING: Minimum nailing per the following schedule shall apply at all locations, except where larger nails and/or smaller spacing are required by plans or details. Where "boundary nailing" (BN) is referenced in these drawings, panel edge values per the schedule shall apply. Blocking for edges shall be 2x4 flat, minimum, unless a greater size is required to avoid splitting.

-- WOOD SHEATHING SCHEDULE --				
USE	TYPE	BLOCK EDGES	MIN EDGE NAILING	MIN FIELD NAILING
Roof	15/32" PLY	Yes	8d @ 6" (BN)	8d @ 12"

- STRUCTURAL ABBREVIATIONS -

AA	ALL AROUND	MAS	MASONRY
AB	ANCHOR BOLT	MAX	MAXIMUM
ADDL	ADDITIONAL	MCJ	MASONRY CONTROL JOINT
ALT	ALTERNATE	MECH	MECHANICAL
ANCH	ANCHOR (ANCHORAGE)	MEMB	MEMBRANE
ARCH	ARCHITECT	MEZZ	MEZZANINE
ATR	ALL-THREAD ROD	MFR	MANUFACTURER
		MIN	MINIMUM
BB	BOND BEAM	MISC	MISCELLANEOUS
BF	BOUNDARY FASTENING (PER DTL/SCHED)	MONO	MONOLITHIC
BFE	BOTTOM OF FOOTING ELEVATION	MPCVT	METAL PLATE CONNECTED WOOD TRUSS
BLDG	BUILDING	MTL	METAL
BLKG	BLOCKING	(N)	NEW
BM	BEAM	N	NORTH
BN	FLOOR/ROOF BOUNDARY NAILING	NIC	NOT IN CONTRACT
BOD	BOTTOM OF DECK	NO	NUMBER
BOT	BOTTOM	NS	NEAR SIDE
BRG	BEARING	NS/HS	NON-SHRINK HIGH STRENGTH
BSMT	BASEMENT	NTS	NOT TO SCALE
BTWN	BETWEEN		
C-C or C/C	CENTER-TO-CENTER	OC or O/C	ON CENTER
CANT	CANTILEVER	OCBF	ORDINARY CONCENTRIC BRACED FRAME
CBORE	COUNTERBORE	OD	OUTSIDE DIAMETER
CFS	COLD FORMED STEEL	OF	OUTSIDE FACE
CIP	CAST IN PLACE	OH	OVERHEAD
CJ or C/JT	CONTROL JOINT	OMF	ORDINARY MOMENT FRAME
CJP	COMPLETE JOINT PENETRATION	OOP	OUT-OF-PLANE
CL	CENTERLINE	OPP	OPPOSITE
CLG	CEILING	OSB	ORIENTED STRAND BOARD
CLR	CLEAR	OVS	OVERSIZE
CMU	CONCRETE MASONRY UNIT	OWJ	OPEN WEB WOOD CHORD JOIST
COL	COLUMN		
COMP	COMPOSITE	PAF	POWDER ACTUATED FASTENER
CONC	CONCRETE	PAR	PARALLEL
CONN	CONNECTION	PC	PRECAST or PIECE
CONSTR	CONSTRUCTION	PERP	PERPENDICULAR
CONT	CONTINUOUS CONTINUED	PL	PLATE
CONTR	CONTRACTOR	PN	WALL PLATE ATTACHMENT
CSINK	COUNTERSINK	PROJ	PROJECT
CTR	CENTER	PS-B	PANEL SCREWS - TYP BEARING
		PS-D	PANEL SCREWS - DIAPH EDGE
D	DEPTH	PSF	POUNDS PER SQUARE FOOT
DAHB	DOWEL ALL HORIZONTAL BARS	PSI	POUND PER SQUARE INCH
DAVB	DOWEL ALL VERTICAL BARS	PSL	PARALLEL STRAND LUMBER
DBL	DOUBLE	PT	PRESSURE TREATED or POINT or POST-TENSIONED
DEG	DEGREES	PVC	POLYVINYL CHLORIDE
DET or DTL	DETAIL		
DIA	DIAMETER	R	RADIUS REACTION
DIAG	DIAGONAL	R/W	REINFORCED WITH
DIAPH	DIAPHRAGM	RD	ROOF DRAIN
DM	DIMENSION	REF	REFERENCE
DL	DEAD LOAD	REINF	REINFORCEMENT
DN	DOWN	REQD	REQUIRED
DO	DITTO (SAME AS ABOVE or ADJACENT)	REV	REVERSE REVISION
DS	DRAG STRUT	RF	ROUGH OPENING
DWG	DRAWING	RO	ROUGH OPENING
DWLS	DOWELS	RTU	ROOF TOP UNIT
E	EAST	S	SOUTH
(E) or EXIST	EXISTING	SC	SLIP CONTROL
EA	EACH	SCHED	SCHEDULE
EF	EDGE FASTENING (PER SCHED)	SDQ	SPECIAL DUCTILE QUALITY
EL or ELEV	ELEVATION (or ELEVATOR)	SECT	SECTION
ELEC	ELECTRICAL	SF	SQUARE FOOT/FEET
EN	WALL EDGE NAILING	SHT	SHEET
EOS or E.O.S.	EDGE OF STEEL	SHTG	SHEATHING
EPS	EXPANDED POLYSTYRENE	SIM	SIMILAR
EQ	EQUAL	SIP	STRUCTURAL INSULATED PANEL
EQ SP	EQUALLY SPACED	SL	SNOW LOAD or SLOPING
EQUIP	EQUIPMENT	SLBB	SHORT LEG BACK-TO-BACK
ERECT	ERECTION	SLRS	SEISMIC LOAD RESISTING SYSTEM
EW	EACH WAY	SN	STRUCTURAL NOTES
EXP	EXPANSION	SOG	SLAB ON GRADE
EXP JT or EJ	EXPANSION JOINT	SP @	SPACED AT
EXT	EXTERIOR	SPA	SPACES
		SPEC	SPECIFICATIONS
		SPECd	SPECIFIED
FB	FLAT BAR	SQ	SQUARE
FD	FLOOR DRAIN	SSL	SHORT SLOTTED (HOLE)
FDN	FOUNDATION	STD	STANDARD
FF	FIELD FASTENING (PER SCHED)	STIFF	STIFFENER
	- or FINISHED FLOOR	STIR	STIRRUPS
FIN	FINISH	STL	STEEL
FLR	FLOOR	STRUCT	STRUCTURAL
FMG or FRMG	FRAMING	SW	SHEAR WALL
FOC	FACE OF CONCRETE	SWEP	SHEAR WALL ENDPOST
FOS	FACE OF STEEL (or STUD)	SYM	SYMMETRICAL
FS	FAR SIDE		
FT	FOOT (FEET)	T&B	TOP & BOTTOM
FTG	FOOTING	TBE	TOP OF BEAM ELEVATION
FV	FIELD VERIFY	TEM	TEMPERATURE or TEMPORARY
		TF	TRACK FASTENING (PER TYP DTL)
GA	GAUGE	TFE	TOP OF FOOTING ELEVATION
GALV	GALVANIZED	TL	TOTAL LOAD
GB	GRADE BEAM	To or T/	TOP OF
GC	GENERAL CONTRACTOR	TOB	TOP OF BEAM
GEO	GEOTECHNICAL ENGINEER	TOS	TOP OF SLAB
GL	GLULAM	TOW	TO OF WALL
GLB	GLULAM BEAM	TRANS	TRANSVERSE
GS	GRIND SMOOTH	TSE	THICKENED SLAB EDGE
GWB	GYPSTUM WALL BOARD	TYP	TYPICAL
HDG	HOT-DIP GALVANIZED	UNO or UON	UNLESS NOTED OTHERWISE
HDR	HEADER	VERT or (V)	VERTICAL
HK	HOOK	VNR	VENEER
HNGR	HANGER	VIF	VERIFY IN FIELD
HORIZ or (H)	HORIZONTAL	VIFY	VERIFY
HSS	HOLLOW STRUCTURAL SECTIONS		
HT or H	HEIGHT	W	WIDTH OR WEST
ID	INSIDE DIAMETER	W/	WITH
IF	INSIDE FACE	W/O	WITHOUT
IN	INCH (INCHES)	WF	WIDE FLANGE
INT	INTERIOR	WHS	WELDED HEADED STUDS
		WL	WIND LOAD
JBE	JOIST BEARING ELEVATION	WP	WORK POINT
JH	JOIST HEADER	WPA	WATER PROOFING ADMIXTURE
JST	JOIST	WT	WEIGHT
JT or JNT	JOINT	WWF	WELDED WIRE FABRIC
		<	LESS THAN
K	KIP (1000 POUNDS)	=	EQUAL TO
KO	KNOCK OUT		
KW	KING-WORKS		
L	ANGLE		
LB	POUND		
LG	LENGTH LONG		
LGS	LIGHT GAUGE STEEL		
LL	LIVE LOAD		
LLB	LONG LEG BACK-TO-BACK		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LOC	LOCATION		
LONG	LONGITUDINAL		
LSL	LONG SLOTTED (HOLE)		
	- or LAMINATED STRAND LUMBER		
LT WT	LIGHT WEIGHT		
LVL	LAMINATED VENEER LUMBER		
LW	LONG WAY		



Owner:
LOPEZ ISLAND LIBRARY
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Project Title:
LOPEZ ISLAND LIBRARY REROOF
2225 FISHERMAN BAY RD.
LOPEZ ISLAND, WA 98261

Sheet Contents:
STRUCTURAL NOTES &
DETAILS

Revisions:
Rev. Date

Drawn By: GKinney
Checked: JKinney
Date: 09/15/2026

Job No.: kw: 26126
hkpa: 736

Sheet No.: